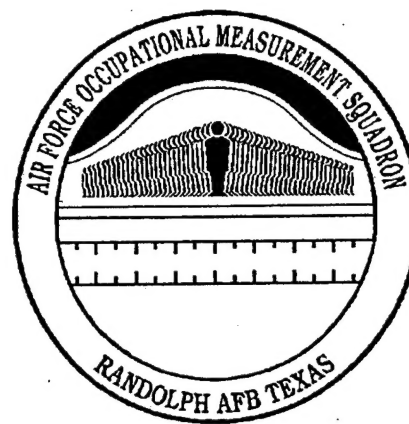
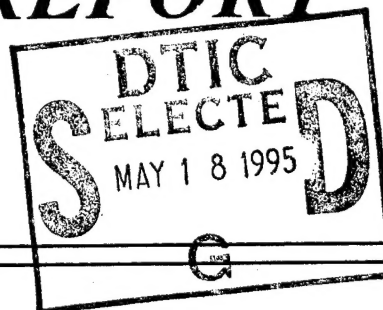




**UNITED STATES
AIR FORCE**



OCCUPATIONAL SURVEY REPORT



AIRCRAFT ARMAMENT SYSTEMS

AFSC 2W1X1

AFPT 90-462-979

MARCH 1995

DTIC QUALITY INSPECTED 8

**OCCUPATIONAL ANALYSIS PROGRAM
AIR FORCE OCCUPATIONAL MEASUREMENT SQUADRON
AIR EDUCATION and TRAINING COMMAND
1550 5th STREET EAST
RANDOLPH AFB, TEXAS 78150-4449**

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82 TRG/TTS (620 9TH AVENUE, STE 1, SHEPPARD AFB TX 76311-2334)	1		1	
363 TRS/TTOM (912 I AVENUE, STE 5, SHEPPARD AFB TX 76311-2361)	3		3	3
388 LSS/LSTD	2		2	

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PREFACE

This report presents the results of an Air Force Occupational Survey of the Aircraft Armament Systems (AFSC 2W1X1) career ladder. Authority to conduct occupational surveys is contained in AFI 36-2623. Computer products used in this report are available for use by operations and training officials.

First Lieutenant Paul K. Daly, Inventory Development Specialist, developed the survey instrument. First Lieutenant Blair W. Conroy, Occupational Analyst, analyzed the data and wrote the final report. Ms. Olga L. Velez provided computer programming support, and Mr. Richard G. Ramos provided administrative support. Major Randall C. Agee, Chief, Airman Analysis Section, Air Force Occupational Measurement Squadron (AFOMS), reviewed and approved this report for release.

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel. Additional copies are available upon request to AFOMS, Attention: Chief, Occupational Analysis Flight (OMY), 1550 5th Street East, Randolph AFB, Texas 78150-4449 (DSN 487-6623).

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SUMMARY OF RESULTS

1. Survey Coverage: Members of the Aircraft Armament Systems (AFSC 2W1X1) career ladder were surveyed to obtain current task and equipment data for use in examining training programs. Survey results are based on responses from 7,000 members worldwide. Respondents include active duty, guard, and reserve members. All commands were proportionately represented.
2. Career Ladder Structure: Structure analysis identified four job clusters and eight independent jobs: Flightline Loading cluster, In-shop Maintenance cluster, Gun Shop cluster, Aerial Gunner job, Maintenance Debrief job, Support job, Weapons Expediter job, Quality Assurance job, Supervision cluster, Safety job, Instructor job, and Mobility job. These jobs account for 87 percent of respondents; the rest perform tasks and duties that did not place them within the main jobs of the ladder.
3. Career Ladder Progression: Personnel in the Aircraft Armament Systems career ladder follow an atypical career progression pattern. For the most part, experienced members perform technical jobs, rather than moving into traditional supervisory positions. Members holding the 7-skill level perform more supervisory and administrative tasks than lower skill levels, but the majority of their time continues to be spent in technical duties. The 9-skill level and CEM personnel perform the pure supervisory and managerial functions.
4. Training Analysis: The Specialty Training Standard (STS) is generally supported by survey data. However, the normal comparison of year groups and skill-level groups left a great number of paragraphs unsupported. A second analysis was then performed using aircraft groups as the criterion for STS entry support. The aircraft groups provided the most support for the STS entries because of the diversity of the career ladder.
5. Job Satisfaction Analysis: Overall, respondents are satisfied with their jobs when compared to previous studies of this career ladder. Similar findings were noted when this career field was compared with responses from a representative sample of similar AFSCs. Respondents within specialty job groups, for the most part, are satisfied. Members holding Supply jobs, however, showed noticeably lower job satisfaction ratings than other job groups within the survey sample.
6. Implications: Subject-matter experts from this career ladder were provided the results of this survey at a Utilization and Training Workshop held at Sheppard AFB TX, 15-19 August 1994. As a result, the career field training documents are current and up to date. This career field has one core function, armament loading; however, training is a challenge because of the great diversity of aircraft in the operational inventory. The training recommendations accompanying this report have been broken down to reflect the different training requirements for the different aircraft. In addition, *AFMAN 36-2108 Specialty Descriptions* are accurate. Job satisfaction across the survey sample is stable, with the possible exception of members in the Supply jobs, since they are performing tasks outside the specialty.

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**OCCUPATIONAL SURVEY REPORT (OSR)
AIRCRAFT ARMAMENT SYSTEMS CAREER LADDER
(AFSC 2W1X1)**

INTRODUCTION

This is a report of an occupational survey of the Aircraft Armament Systems (AFSC 2W1X1) career ladder conducted by the Occupational Analysis Flight of the Air Force Occupational Measurement Squadron. The survey was performed as part of the 5-year cycle to maintain currency of pertinent career field training documents. Data gathered through this OSR have already been used by the technical school to review their training courses and related training documents in light of equipment and utilization changes which have occurred since the last OSR in 1986.

Background

The *AFMAN 36-2108 Specialty Descriptions* for this career field state that 3- and 5-skill level members are responsible for loading and positioning munitions on aircraft, and inspecting and maintaining aircraft release, launch, suspension, and monitoring systems. In addition, 3- and 5-skill level members repair, modify, and install aircraft release, launch, suspension, and monitor systems. There are also eight 3-skill level shreds that identify the type of aircraft maintained by these apprentice members.

In addition to the above, 7-skill level members are also responsible for establishing maintenance control and workflow procedures. They also perform quality inspections of munitions and gun systems and related handling equipment.

At the 9-skill level and Chief Enlisted Manager level, members plan, organize, and direct all types of maintenance activities. They manage the programs and personnel responsible for maintaining various armament systems and support equipment.

3-SKILL LEVEL SHREDS	
2W131C	A-10
2W131D	F-4
2W131E	F-15
2W131F	F-16
2W131H	F-111
2W131K	B-52
2W131L	B-1B
2W131Z	Other

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SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory (JI) AFPT 90-462-979, dated October 1992. A tentative task list was prepared after reviewing pertinent career ladder publications and directives and tasks from previous applicable OSRs. The preliminary task list was refined and validated through personal interviews with 55 subject-matter experts (SMEs) selected to cover a variety of major commands (MAJCOMs) at the following locations:

<u>BASE</u>	<u>REASON FOR VISIT</u>
Barksdale AFB LA	2d Munitions Maintenance Squadron
Cannon AFB NM	27th Fighter Wing
Eglin AFB FL	33d Fighter Wing
Ellsworth AFB SD	28th Missile Maintenance Squadron
Hurlburt Field FL	HQ AFSOC
Lowry AFB CO	Technical Training School
Moody AFB GA	68th, 69th, 70th Fighter Squadrons

Other people contacted included Air Force Military Personnel Center (AFMPC) classification personnel, MAJCOM functional and resource managers, and the Air Force Career Field Manager.

The resulting JI contained a comprehensive listing of 794 tasks grouped under 18 duty headings, with a background section requesting such information as grade, job title, time in present job, time in service, job satisfaction, equipment maintained, and forms used in the performance of the incumbent's job.

Survey Administration

From March 1993 to October 1993, military personnel flights at operational bases worldwide administered the inventory to all eligible AFSC 2W1X1 personnel (Active Duty, Air National Guard (ANG), and Air Force Reserve (AFRES)). Members eligible for the survey consisted of the total assigned 3-, 5-, 7-, 9-, and CEM-skill level population, excluding the following: (1) hospitalized personnel; (2) personnel in transition for a permanent change of station; (3) personnel

retiring within the time the inventories were administered to the field; and (4) personnel in their jobs less than 6 weeks. Members of the ANG and AFRES were also surveyed. Participants were selected from a computer-generated mailing list obtained from AFMPC.

Each individual who completed the inventory first filled in an identification and biographical information section and then checked each task performed in his or her current job. After checking tasks performed, each individual rated the tasks checked on a 9-point scale showing relative time spent on that task, compared to other tasks performed. The ratings ranged from 1 (very small amount time spent) to 9 (very large amount time spent).

Data Processing Approach

Using the ratings provided by the respondents, relative time spent for each task was computed by summing all the ratings given by the respondent, dividing each rating by that sum, and multiplying the result by 100. Assuming that all of the incumbent's ratings account for 100 percent of that member's job time, this procedure provides a basis for comparing job descriptions of respondents in terms of percent members performing tasks and average percentage of time spent on tasks.

Survey Sample

Personnel were selected to participate in this study so as to ensure an accurate representation across MAJCOMs and paygrades. Table 1 reflects the percentage, by MAJCOM, of assigned and sampled individuals in AFSC 2W1X1. The 7,000 respondents in the final sample represent 53 percent of all eligible AFSC 2W1X1 personnel. A summary is also included that highlights the numbers of Active Duty, Guard, and Reserve personnel in the eligible population and our final sample. The data are displayed showing the assigned and sampled populations, based on the current MAJCOM structure. Table 2 reflects the percentage distribution by paygrade groups. As shown by both tables, the survey sample accurately reflects the overall population of the career field.

Task Factor Administration

Job descriptions alone do not provide sufficient data for making decisions about career ladder documents or training programs. Task factor information is needed for a complete analysis of the career ladder. To obtain the needed task factor data, selected senior AFSC 2W1X1 personnel (generally E-6 or E-7 technicians) also completed a second booklet for either training emphasis (TE) or task learning difficulty (TD). The TE and TD booklets were processed separately from the JIs. The information gained from these task factor data is used in various analyses and is a valuable part of the training decision process.

TABLE 1
MAJCOM REPRESENTATION IN SAMPLE

<u>COMMAND</u>	<u>PERCENT OF ASSIGNED</u>	<u>PERCENT OF SAMPLE</u>			
ACC	59	61			
PACAF	14	14			
USAFE	15	13			
AFMC	5	5			
AFSOC	5	4			
AETC	1	2			
AMC	*	*			
AFOTEC	*	*			
	<u>ACTIVE DUTY</u>	<u>ANG</u>	<u>AFRES</u>	<u>TOTAL</u>	
TOTAL ELIGIBLE:	8,706	3,328	1,043	13,077	
TOTAL SURVEYED:	8,325	2,980	1,020	12,325	
TOTAL IN SAMPLE:	5,523	1,159	318	7,000	
PERCENT OF ELIGIBLE IN SAMPLE:	63	35	30	53	
PERCENT OF SURVEYED IN SAMPLE:	66	39	31	56	

* Denotes less than 1 percent

TABLE 2
PAYGRADE DISTRIBUTION OF SAMPLE

<u>PAYGRADE</u>	<u>PERCENT OF ASSIGNED</u>	<u>PERCENT OF SAMPLE</u>
E-1 to E-3	17	18
E-4	30	28
E-5	22	23
E-6	16	16
E-7	11	11
E-8	2	2
E-9	1	1

Training Emphasis (TE). Individuals completing TE booklets were asked to rate tasks on a 10-point scale (from no training required to extremely high amount of training required). TE is a rating of which tasks require structured training for first-enlistment personnel. Structured training is defined as training provided at resident technical schools, field training detachments, mobile training teams, formal on-the-job training (OJT), or any other organized training method. TE data were independently collected from 45 experienced 7-skill level personnel stationed worldwide. The interrater reliability for these raters was good, indicating there was strong agreement among raters as to which tasks required some form of structured training and which did not. In this survey, tasks have an average TE rating of 1.64 and a standard deviation of 1.30; tasks considered high in TE have ratings of 2.94 and above. TE rating data may also be used to rank order tasks indicating those which senior noncommissioned officers (NCOs) in the field consider the most important for first-enlistment personnel to be trained to perform.

Task Learning Difficulty (TD). Each individual completing a TD booklet was asked to rate all of the tasks on a 9-point scale (from extremely low to extremely high) as to the relative difficulty of each task in the inventory. Difficulty is defined as the length of time required by the average incumbent to learn to do the task. TD data were independently collected from 35 experienced 7-skill level personnel stationed worldwide. Interrater reliability was acceptable. Ratings were standardized so tasks have an average difficulty of 5.00 and a standard deviation of 1.00. The resulting data yield essentially a rank-ordering of tasks indicating the degree of difficulty for each task in the inventory.

When used in conjunction with the primary criterion of percent members performing, TD and TE ratings can provide insight into first-enlistment personnel training requirements. Such insights may suggest a need for lengthening or shortening portions of instruction in support of first-enlistment jobs.

CAREER LADDER STRUCTURE

The first step in the analysis process is to identify the structure of the career ladder in terms of the jobs performed by the respondents. The Comprehensive Occupational Data Analysis Program (CODAP) assists by creating an individual job description for each respondent based on the tasks performed and relative amount of time spent on these tasks. The CODAP automated job clustering program then compares all the individual job descriptions, locates the two descriptions with the most similar tasks and time spent ratings, and combines them to form a composite job description. In successive stages, CODAP either adds new members to this initial group or forms new groups based on the similarity of tasks and time spent ratings.

The basic group used in the hierarchical clustering process is the job. When two or more jobs have a substantial degree of similarity, in tasks performed and time spent on tasks, they are grouped together and identified as a cluster. The structure of the career ladder is then defined in terms of jobs and clusters of jobs.

Overview of Specialty Jobs

Based on the analysis of tasks performed and the amount of time spent performing each task, eight independent jobs and four clusters of jobs were identified within the career ladder. Figure 1 illustrates the jobs performed by AFSC 2W1X1 personnel.

A listing of these jobs and job clusters is provided below. The stage (STG) number shown beside each title references computer-printed information, the letter "N" indicates the number of personnel in each group.

- I. FLIGHTLINE LOADING CLUSTER (STG168, N=3,644)
 - A. Tactical Aircraft Munitions Loader Job
 - B. Nuclear Weapons Loading Job
 - C. Certification Training Job
- II. IN-SHOP MAINTENANCE CLUSTER (STG127, N=913)
 - A. Weapons Release Team Leader Job
 - B. Maintenance Training Job
- III. GUN SHOP MAINTENANCE CLUSTER (STG163, N=239)
 - A. F-16 Gun Shop Job
 - B. AC/MC-130 Gun Shop Job
 - C. Helicopter Gun Shop Job
- IV. AERIAL GUNNER JOB (STG728, N=115)
- V. MAINTENANCE DEBRIEF JOB (STG569, N=50)
- VI. SUPPORT JOB (STG124, N=274)
- VII. WEAPONS EXPEDITER JOB (STG649, N=15)
- VIII. QUALITY ASSURANCE JOB (STG634, N=70)
- IX. SUPERVISION CLUSTER (STG197, N=838)
 - A. Shift Supervisor Job
 - B. Flight Chief Job
 - C. Program Management Job

AFSC 2W1X1 CAREER LADDER JOBS

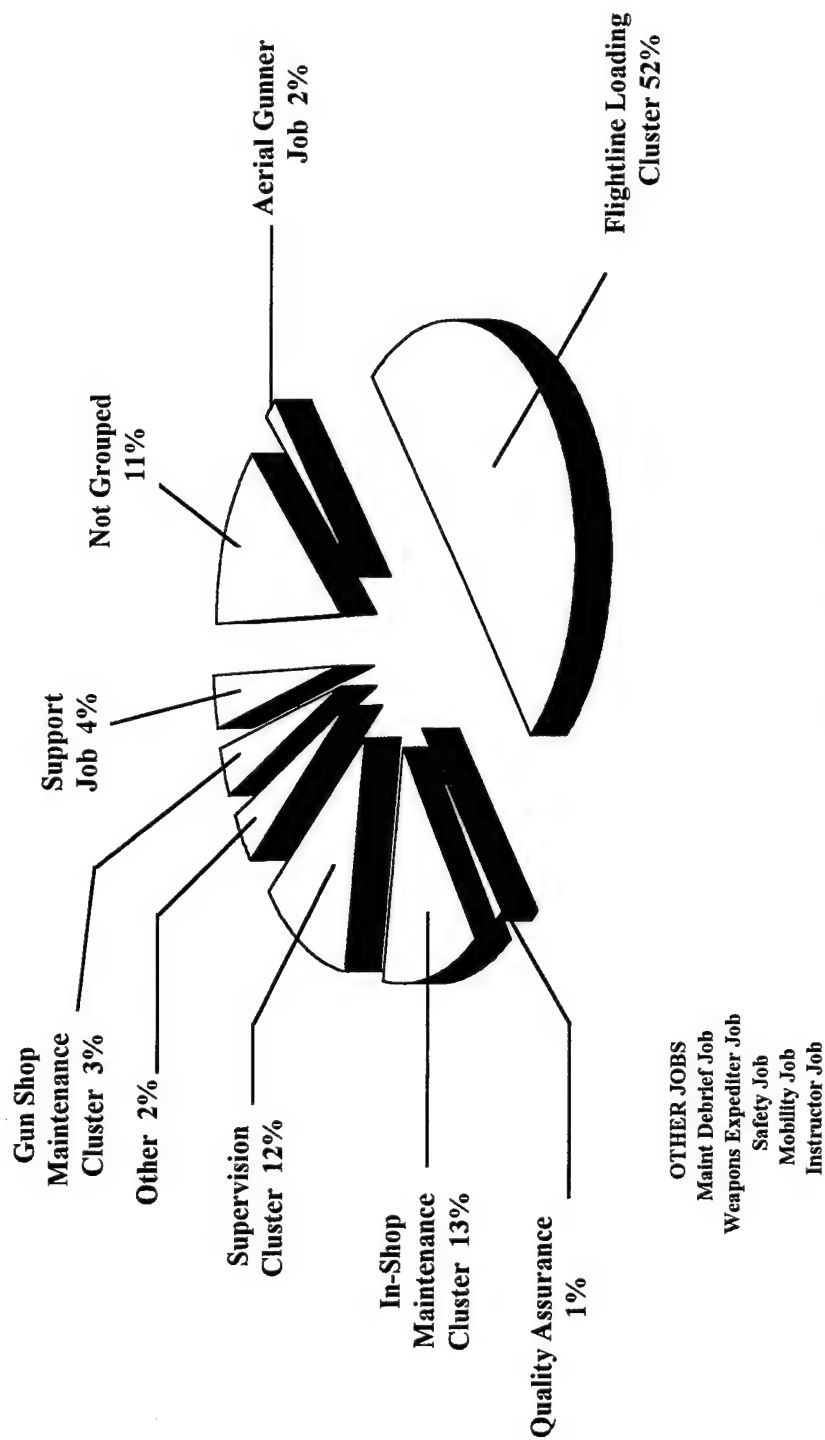


FIGURE 1

- X. SAFETY JOB (STG718, N=31)
- XI. INSTRUCTOR JOB (STG184, N=57)
- XII. MOBILITY JOB (STG876, N=21)

The respondents forming these groups account for 87 percent of the survey sample. The remaining 13 percent perform tasks which do not group with any of the other defined jobs. Some of the job titles given by respondents which were representative of these personnel include: Weapons Evaluator, Combat Armament Support Team Member, Armament Integration, Trailer Technician, and Technical Order Data.

Group Descriptions

The following paragraphs contain brief descriptions of the six independent jobs and six job clusters identified through the career ladder structure analysis. Appendix A lists representative tasks performed by identified independent job and job cluster groups. Table 3 displays time spent on duties, while Table 4 provides demographic information for each job discussed within this report.

Another way to illustrate these jobs is to summarize tasks performed into groups of task modules. These modules were identified through CODAP coperformance clustering, which presents the average probability that members who perform one task will also perform a second task or group of related tasks. Each job description includes a listing of the top task modules for that job. This allows for a very concise display of where job incumbents spend most of their time, and develops a comprehensive overview of each job. The display shows the number of tasks included in a module, the average percent time spent on that module, and the average percent members performing the particular task module. Representative task modules are listed as part of the job description. The list of modules with respective tasks is presented in Appendix B.

TABLE 3

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS

DUTIES	FLIGHTLINE LOADING CLUSTER (STG168)	IN-SHOP MAINT CLUSTER (STG127)	GUN SHOP MAINT CLUSTER (STG163)	AERIAL GUNNER (STG728)	MAINT DEBRIEF (STG569)	SUPPORT (STG124)
A ORGANIZING AND PLANNING	1	2	2	6	12	7
B DIRECTING AND IMPLEMENTING	2	3	2	3	8	5
C INSPECTING AND EVALUATING	3	2	1	3	3	5
D TRAINING	2	3	2	3	1	3
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	1	1	2	3	6	24
F PERFORMING CORE AUTOMATED MAINTENANCE SYSTEMS (CAMS) ACTIVITIES	2	4	3	*	54	5
G PERFORMING GENERAL DUTY FUNCTIONS	10	11	10	2	9	36
H PERFORMING ON-EQUIPMENT INSPECTION, CLEANING, AND LUBRICATION OF AIR LAUNCH AND RELEASE SYSTEMS	9	13	2	*	0	*
I PERFORMING ON-EQUIPMENT OPERATIONAL OR FUNCTIONAL CHECKS OF AIR LAUNCH AND RELEASE SYSTEMS	14	9	2	0	0	*
J PERFORMING ON-EQUIPMENT MAINTENANCE OF AIR LAUNCH AND RELEASE SYSTEMS AND COMPONENTS	10	5	2	0	*	*
K PERFORMING IN-SHOP MAINTENANCE OF AIR LAUNCH AND RELEASE SYSTEMS AND COMPONENTS AND ALTERNATE MISSION EQUIPMENT	1	28	2	0	0	1
L PERFORMING FLIGHTLINE OR INFLIGHT MAINTENANCE OF AIRCRAFT GUN SYSTEMS	6	2	29	16	0	0
M PERFORMING IN-SHOP MAINTENANCE OF AIRCRAFT GUN SYSTEMS	*	6	19	1	0	*
N MAINTAINING SUPPORT EQUIPMENT AND MUNITIONS HANDLING EQUIPMENT	5	5	10	*	*	2
O LOADING OR UNLOADING MUNITIONS AND WEAPONS	25	1	4	6	0	0
P PERFORMING AERIAL GUN OPERATIONS	*	0	*	46	*	0
Q TRANSPORTING, HANDLING, AND STORING MUNITIONS	1	0	1	1	*	0
R PERFORMING CROSS-UTILIZATION TRAINING (CUT) TASKS	3	*	1	1	*	*
S PERFORMING CONTINGENCY AND MOBILITY FUNCTIONS	2	2	3	7	5	8

* Denotes less than 1 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 3 (CONTINUED)
AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS

DUTIES	WEAPONS EXPEDITER (STG649)	QUALITY ASSURANCE (STG634)	SUPERVISOR CLUSTER (STG197)	SAFETY (STG718)	INSTRUCTOR (STG184)	MOBILITY (STG876)
A ORGANIZING AND PLANNING	48	5	22	15	6	13
B DIRECTING AND IMPLEMENTING	22	9	18	18	9	8
C INSPECTING AND EVALUATING	8	26	18	33	7	4
D TRAINING	1	4	8	6	44	2
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	0	6	5	12	7	4
F PERFORMING CORE AUTOMATED MAINTENANCE SYSTEMS (CAMS) ACTIVITIES	5	7	9	0	5	*
G PERFORMING GENERAL DUTY FUNCTIONS	6	8	4	3	10	2
H PERFORMING ON-EQUIPMENT INSPECTION, CLEANING, AND LUBRICATION OF AIR LAUNCH AND RELEASE SYSTEMS	2	18	2	*	*	0
I PERFORMING ON-EQUIPMENT OPERATIONAL OR FUNCTIONAL CHECKS OF AIR LAUNCH AND RELEASE SYSTEMS	*	*	*	0	3	0
J PERFORMING ON-EQUIPMENT MAINTENANCE OF AIR LAUNCH AND RELEASE SYSTEMS AND COMPONENTS	0	*	1	0	*	0
K PERFORMING IN-SHOP MAINTENANCE OF AIR LAUNCH AND RELEASE SYSTEMS AND COMPONENTS AND ALTERNATE MISSION EQUIPMENT	0	*	*	0	*	0
L PERFORMING FLIGHTLINE OR INFLIGHT MAINTENANCE OF AIRCRAFT GUN SYSTEMS	*	5	*	*	*	0
M PERFORMING IN-SHOP MAINTENANCE OF AIRCRAFT GUN SYSTEMS	0	1	*	0	*	0
N MAINTAINING SUPPORT EQUIPMENT AND MUNITIONS HANDLING EQUIPMENT	0	4	*	1	1	0
O LOADING OR UNLOADING MUNITIONS AND WEAPONS	2	2	1	*	2	*
P PERFORMING AERIAL GUN OPERATIONS	0	0	0	0	0	0
Q TRANSPORTING, HANDLING, AND STORING MUNITIONS	1	*	*	*	*	*
R PERFORMING CROSS-UTILIZATION TRAINING (CUT) TASKS	*	*	*	0	0	0
S PERFORMING CONTINGENCY AND MOBILITY FUNCTIONS	3	3	5	9	1	66

* Denotes less than 1 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 4

SELECTED BACKGROUND DATA FOR AFSC 2W1X1 CAREER LADDER JOBS

	FLIGHTLINE LOADING CLUSTER	IN-SHOP MAINT CLUSTER	GUN-SHOP MAINT CLUSTER	AERIAL GUNNER	MAINT DEBRIEF	SUPPORT
NUMBER IN GROUP	3,644	913	239	115	50	274
PERCENT OF SAMPLE	52%	13%	3%	2%	<1%	4%
DAFSC DISTRIBUTION:						
2W131 **	18%	10%	7%	0%	2%	2%
2W151	62%	52%	59%	50%	56%	55%
2W171	19%	34%	33%	44%	42%	41%
2W191		1%	1%	4%		0%
2W100						0%
PAYGRADE DISTRIBUTION:						
E-1 to E-3	20%	19%	16%	0%	8%	8%
E-4	33%	27%	26%	22%	42%	36%
E-5	30%	31%	33%	37%	12%	25%
E-6	14%	17%	20%	16%	28%	21%
E-7	3%	5%	5%	19%	10%	9%
E-8	0%	0%	0%	5%	0%	0%
AVERAGE TASKS PERFORMED	97	90	103	63	27	37
AVERAGE MONTHS TAFMS	82	92	91	144	110	123
PERCENT IN FIRST ENLISTMENT	36%	32%	32%	1%	20%	16%
PERCENT SUPERVISING	37%	42%	39%	42%	32%	49%

** Figures include C, D, E, F, H, L, and Z 3-level shreds

TABLE 4 (CONTINUED)

SELECTED BACKGROUND DATA FOR AFSC 2W1X1 CAREER LADDER JOBS

	WEAPONS EXPEDITER	QUALITY ASSURANCE	SUPERVISOR CLUSTER	SAFETY	INSTRUCTOR	MOBILITY
NUMBER IN GROUP	15	70	838	31	57	21
PERCENT OF SAMPLE	<1%	1%	12%	<1%	<1%	<1%
DAFSC DISTRIBUTION:						
2W131**	0%	0%	0%	0%	0%	0%
2W151	13%	4%	5%	3%	25%	5%
2W171	80%	89%	62%	90%	72%	86%
2W191	7%	7%	26%	6%	4%	10%
2W100	0%	0%	8%	0%	0%	0%
PAYGRADE DISTRIBUTION:						
E-1 to E-3	0%	0%	0%	0%	0%	0%
E-4	0%	0%	1%	0%	0%	5%
E-5	0%	10%	5%	3%	32%	5%
E-6	73%	50%	24%	32%	56%	24%
E-7	7%	40%	47%	61%	12%	67%
E-8	20%	0%	16%	3%	0%	0%
E-9	0%	0%	7%	0%	0%	0%
AVERAGE TASKS PERFORMED	18	61	79	36	36	64
AVERAGE MONTHS TAFMS	186	165	199	196	153	207
PERCENT IN FIRST ENLISTMENT	0%	0%	0%	0%	0%	0%
PERCENT SUPERVISING	100%	30%	94%	35%	26%	52%

** Figures include C, D, E, F, H, L, and Z 3-level shreds

I. FLIGHTLINE LOADING CLUSTER (STG168). This is one of the three most likely initial assignments for first-enlistment personnel. The 3,644 members of this cluster represent 52 percent of the total survey sample. Members of this group focus on the first area of responsibility for the career ladder as stated in AFMAN 36-2108, loading and unloading munitions from aircraft. As shown in Table 3, members spend more time performing loading, on-equipment maintenance, and operational checks of air launch and release systems than members of any other jobs in the specialty. What distinguishes this cluster is the time members spend performing the following tasks.

- Remove or install impulse cartridges
- Perform aircraft safe for maintenance procedures
- Load or unload conventional munitions or equivalent training items onto or from aircraft
- Remove or install argon bottles
- Functionally or electrically check aircraft conventional bomb release systems
- Perform munitions post load inspections

FLIGHTLINE LOADING CLUSTER	
Number of members	3,644
Percent of total sample	52%
Average number of tasks performed	97
Average time in present job	4 yrs
Average time in career field	6.8 yrs
Average TAFMS	7 yrs
Predominant DAFSC	2W151
Predominant paygrades	E-4/E-5
Predominant MAJCOM	ACC
Percent of AFRES/ANG	5%/18%

Respondents in this job predominantly hold the 5-skill level. More than a third are in their first enlistment. Their average Total Active Federal Military Service (TAFMS) is 7 years, making them the most junior group in the career field.

Representative task modules for this cluster include:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0002	Flightline Loading and Checkout	27	27.4	71
0001	Entry-Level Tasks	6	6.9	79
0003	Clean and Inspect Bomb/Ejector Racks	8	4.4	51
0004	Mechanical Checkout - Release Systems	5	2.2	41

There are three main jobs in this cluster. The first job is Tactical Aircraft Munitions Loader. These members spend time loading both gun system ammunition and the various launch systems. They are distinguished from the other jobs of the cluster by the amount of time they spend removing or installing pylons, missile launchers, or impulse cartridges.

The second job is Nuclear Weapons Loader. Members in this area are the only group in the ladder to perform functional checks of nuclear weapons monitoring systems or circuits. They also load nuclear weapons or equivalent training items.

The final job is Certification Training. A slightly more senior group of Armament Specialists (TAFMS of 8.5 years) are distinguished by the time they spend conducting load crew certification training and evaluations for upgrade.

II. IN-SHOP MAINTENANCE CLUSTER (STG127). The 913 members of this cluster represent 13 percent of the total survey sample. Work done by this cluster represents the second largest function of the career ladder. The focus of this group is complementary to the Flightline Loading cluster in that members also check and repair launch and release system components in the back shop. They spend more time than any other job performing in-shop maintenance tasks as shown in Table 3. The amount of time members spend on the following tasks shows their emphasis on in-shop launch and release system maintenance:

- Assemble or disassemble bomb or ejector racks
- Troubleshoot bomb or ejector rack electrical components
- Bench check pylons
- Perform operator maintenance or self-tests on armament systems testers
- Repair missile launchers
- Repair pylons

IN-SHOP MAINTENANCE CLUSTER	
Number of members	913
Percent of total sample	13%
Average number of tasks performed	90
Average time in present job	3.8 yrs
Average time in career field	7.6 yrs
Average TAFMS	8.0 yrs
Predominant DAFSC	2W151
Predominant paygrades	E-4/E-5
Predominant MAJCOM	ACC
Percent of AFRES/ANG	6%/21%

This cluster can further be described by the following list of representative task modules.

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0017	In-Shop Ejector Rack/Launcher Repair	19	18.2	68
0003	Clean and Inspect Bomb/Ejector Racks	8	7.0	62
0012	Component Supply	7	4.2	48

Eighty-six percent of the incumbents in this cluster possess the 5- or 7-skill level. The majority, 67 percent, are members of Air Combat Command. Just like the previous cluster, one-third of these members are in their first enlistment.

This In-Shop Maintenance cluster contains two clear jobs. The first job is Weapons Release Team Leader Job. The main focus is supervision of the in-shop personnel. While members still spend most of their time performing the same maintenance tasks listed above, they reported performing such supervising tasks as preparing EPRs and counseling personnel.

The second job is Maintenance Training. These members are distinguished from the rest of the cluster by the time they spend in training the junior personnel on the tasks listed above and those listed in Appendix A. They also spend more than 25 percent of their relative job time performing the above listed in-shop tasks. These members perform some of the same tasks as those in the Training job. However, the majority of the tasks they perform are most similar to the in-shop cluster.

III. GUN SHOP MAINTENANCE CLUSTER (STG163). The 239 members of this cluster represent 3 percent of the total sample. Members spend 48 percent of their time performing flightline or in-flight maintenance of aircraft gun systems or in-shop maintenance of the gun systems. No other group of respondents spends as much time in these areas (see Table 3). They perform many cleaning and inspecting tasks related to various gun systems. Distinguishing tasks for the Gun Shop Maintenance cluster include:

- Safe and clear gun systems
- Clean or corrosion-treat gun system components
- Assemble or disassemble internal gun systems
- Remove or replace ammunition chutes or demand boosters
- Inspect aircraft gun supports or mounts
- Repair ammunition chutes
- Remove or replace internal gun system mechanical components

GUN SHOP MAINTENANCE CLUSTER	
Number of members	239
Percent of total sample	3%
Average number of tasks performed	103
Average time in present job	4.5 yrs
Average time in career field	7.6 yrs
Average TAFMS	8.3 yrs
Predominant DAFSCs	2W151
Predominant paygrades	E-4/E-5
Predominant MAJCOM	ACC
Percent of AFRES/ANG	6%/46%

Representative task modules for this cluster include:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0020	In-Shop Gun Support	18	13.0	54
0052	Train, Fix, or Pintle-Mounted Gun Maint	20	9.2	41
0008	Gun Operations Support	11	8.6	63
0009	Gun Systems Repair	9	6.0	56

The average TAFMS for incumbents is 7 years. Ninety-two percent possess the 5- or 7-skill level. That makes these members one of the more junior of the ladder. This cluster, like the previous two, is composed of 30 percent first-enlistment personnel.

Three distinct jobs were noted in this cluster. The first job is the F-16 Gun Shop. Members overhaul internal gun systems, perform in-shop inspections of 20mm gun systems and perform routine maintenance of blast deflectors. They spend more time maintaining internal gun components and blast deflectors than any job in the ladder. Ninety-six percent of these members are part of Guard or Reserve units. This is the only job in the ladder that has such a unique Guard and Reserve mission.

The second job is AC/MC-130 Gun Shop. Members maintain the 105mm and 40mm gun systems. They spend most of their time maintaining fixed mounted guns. This entails servicing recoil cylinders and aligning and timing gun system components. This job is distinguished by the amount of time spent in the 105mm task modules (see appendix B, Modules 53 and 55).

The Helicopter Gun Shop job is the third. Members maintain the 50 caliber gun system and the 7.62mm gun system. They also perform some loading tasks, but their main emphasis and task module are maintaining trainable and pintle mounted gun systems.

IV. AERIAL GUNNER JOB (STG728). These incumbents have a distinct combat operations and training mission. They are flightcrew members aboard helicopters in training and active missions. They perform diverse tasks from firing guns to hand launching pyrotechnics. More than 45 percent of their relative job time is spent on tasks in Duty P, Performing Aerial Gun Operations (see Table 3). The distinct tasks performed by these members place this job the furthest from the main focus of the career ladder. Representative tasks are presented below:

- Perform aircraft scanning functions
- Preflight aircraft for aerial gun operations
- Fire guns during aerial operations
- Detect and clear gun malfunctions during training or aerial operations
- Load ammunition into containers
- Operate night vision equipment

AERIAL GUNNER JOB	
Number of members	115
Percent of total sample	2%
Average number of tasks performed	63
Average time in present job	4.7 yrs
Average time in career field	11.5 yrs
Average TAFMS	12 yrs
Predominant DAFSCs	2W151
Predominant paygrade	E-5
Predominant MAJCOM	AFSOC
Percent of AFRES/ANG	0/0

Aerial Gunner job members average over 11 years in the career field. The predominant DAFSC is 2W151, while paygrade ranges from E-4 through E-7. Members are assigned only to AFSOC. There are few, if any, first-enlistment personnel, in contrast to the first three clusters of jobs. Members of this job also have high job satisfaction ratings and report a higher sense of accomplishment than most of the other jobs.

Representative task modules for this cluster include:

TM	Module Title	No. of Tasks	Percent Time Spent Sum	Avg. Percent Members Perf.
0056	Support Aerial Gunnery Training	15	31.2	94
0057	Accompany Aerial Operations	11	9.0	49
0052	Train, Fix, or Pintle-Mounted Gun Maint	20	6.3	20
0058	Maintain Small Arms	4	2.3	40

V. MAINTENANCE DEBRIEF JOB (STG569).

This independent job is administrative rather than technical. Members holding this job support the mission by serving as the historical tracking branch for armament systems. Members spend the majority of their job time performing Consolidated Aircraft Maintenance System (CAMS) activities. However, they also spend more than 12 percent of their time planning and organizing (see Table 3). This is one of the most limited jobs, with members performing an average of only 28 tasks. Tasks that distinguish this job from the rest of the ladder include:

- Change CAMS work center event narratives
- Change CAMS errors noted during daily verification process
- Create aircraft or support equipment maintenance discrepancies in CAMS
- Change CAMS work unit codes
- Schedule aircraft maintenance discrepancies in CAMS
- Change CAMS job standard narratives

MAINTENANCE DEBRIEF JOB	
Number of members	50
Percent of total sample	<1%
Average number of tasks performed	28
Average time in present job	3 yrs
Average time in career field	9.5 yrs
Average TAFMS	10.0 yrs
Predominant DAFSCs	2W151
Predominant paygrades	E-4
Predominant MAJCOM	ACC
Percent of AFRES/ANG	6%/14%

Representative task modules for this cluster include:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0030	CAMS Support	13	44.0	75
0029	Maintenance Coordination	6	5.7	29

The majority of incumbents have 5 to 8 years in the field. The paygrade distribution reflects a broad range of Air Force experience, E-3 to E-7. As shown in Figure 1, this job is a small part of the work done in the Armament career ladder.

VI. SUPPORT JOB (STG124). The main function of the Support job is to control forms and tool inventories. Members essentially work outside the mainstream of the career ladder; no armament-related tasks are performed. They spend nearly all their time on administrative and supply duties. Representative tasks for this job include:

- Issue or receive tools or test equipment
- Inspect composite tool kits
- Inventory supplies, equipment, or tools
- Maintain portable power tools
- Initiate or complete lost tool reports
- Maintain bench stock parts or equipment levels

SUPPORT JOB	
Number of members	274
Percent of total sample	4%
Average number of tasks performed	37
Average time in present job	2.3 yrs
Average time in career field	9.8 yrs
Average TAFMS	10.3 yrs
Predominant DAFSC	2W151/71
Predominant paygrades	E-4/E-5
Predominant MAJCOM	ACC
Percent of AFRES/ANG	1%/0

Incumbents average more than 9 years in the field and 10 years in the service. The three dominant paygrades are E-4, E-5, and E-6. Members usually are allowed to gain some experience in one or more of the three major job clusters before working in the supply section. However, as shown in Table 4, some junior members work in this area too.

Representative task modules for this job include:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0001	Entry Level Tasks	6	19.3	59
0039	Supply Functions	11	12.2	35
0012	Component Supply	7	7.4	31

VII. WEAPONS EXPEDITER JOB (STG649).

This is another distinct job where members coordinate munitions activities with other agencies such as delivery, loading support, and aircraft integrated systems checkout. Members of the Weapons Expediter job spend 70 percent of their time in two duties. They spend 48 percent of their relative job time planning and organizing and 22 percent directing and implementing maintenance policy. This is the most limited job in the ladder. Members perform an average of 18 tasks. Representative tasks for this cluster include:

- Coordinate munitions deliveries with other organizations
- Coordinate munitions loading support requirements with other sections
- Coordinate weapons release support requirements with other sections
- Coordinate gun services support requirements with other sections
- Plan work assignments
- Prepare EPRs

WEAPONS EXPEDITER	
Number of members	15
Percent of total sample	<1%
Average number of tasks performed	18
Average time in present job	3.8 yrs
Average time in career field	15.5 yrs
Average TAFMS	17 yrs
Predominant DAFSC	2W171
Predominant paygrades	E-6
Predominant MAJCOM	ACC
Percent of AFRES/ANG	13%/14%

Incumbents average more than 15 years in the field and 17 years in the service. The predominant paygrade is E-6. This is one of the more senior jobs in the ladder with members spending more time on focused coordination and planning tasks.

Representative task modules for this cluster include:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0028	Shift Supervision	16	40.3	34
0029	Maintenance Coordination	6	27.7	65

VIII. QUALITY ASSURANCE JOB (STG634).

Quality Assurance involves inspecting personnel, equipment, and programs. Members with the job inspect to verify quality work in all phases of armament system maintenance. This includes inspecting loading areas, in-shop work areas, and performing various on-equipment or flightline inspections. Members reported spending 44 percent of their relative job time inspecting and evaluating. This job is distinguished from the rest of the career ladder by the following tasks Quality Assurance personnel perform:

- Perform quality verification inspections
- Evaluate personnel on qualification tasks
- Inspect pylons
- Inspect external missile launchers
- Investigate accidents or incidents
- Inspect aircraft loading areas

QUALITY ASSURANCE	
Number of members	70
Percent of total sample	1%
Average number of tasks performed	61
Average time in present job	2.4 yrs
Average time in career field	14 yrs
Average TAFMS	14.2 yrs
Predominant DAFSC	2W171
Predominant paygrades	E-6
Predominant MAJCOM	ACC
Percent of AFRES/ANG	13%/20%

Incumbents average more than 14 years in the field, requiring more experience than most jobs in the career field. Ninety percent of these members are either E-6 or E-7 and hold the 7-skill level.

Representative task modules for this job include:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0003	Clean and Inspect Bomb/Ejector Racks	8	9.3	53
0031	Maintenance Management	18	7.8	26
0035	Personnel Evaluation	4	3.8	36
0032	Safety Programs	4	2.4	40

IX. SUPERVISION CLUSTER (STG197). The Supervision cluster is distinguished from the other jobs performed in the career field by the amount of time members spend counseling and evaluating subordinates and managing maintenance programs. Representative tasks for this cluster include:

- Establish performance standards for subordinates
- Determine work priorities
- Supervise Aircraft Armament Systems Specialists (AFSC 2W151)
- Counsel personnel on personal or military-related matters
- Evaluate individuals for compliance with performance standards
- Conduct Performance Feedback Worksheet (PFW) sessions

SUPERVISION CLUSTER	
Number of members	838
Percent of total sample	12%
Average number of tasks performed	78
Average time in present job	3.3 yrs
Average time in career field	16.6 yrs
Average TAFMS	17 yrs
Predominant DAFSC	2W171
Predominant paygrades	E-7
Predominant MAJCOM	ACC
Percent of AFRES/ANG	1%/10%

This cluster contains three jobs. The first job is Shift Supervisor. These first-line supervisors spend their time working with the main technicians of the field. They counsel personnel on work performance and other day-to-day military matters. They also coordinate their maintenance activities with other on-base organizations. Seventy-eight percent of these members work at the flight level.

The second job, Flight Chief, is performed by more senior personnel. These supervisors take on more advanced responsibilities as they begin to endorse EPRs rather than writing them. They also select personnel for training or temporary duty assignments.

The third job is Program Management. Members perform tasks such as interpreting policies, establishing performance standards, and preparing briefings. These members spend very little time with the day-to-day supervision tasks, as compared to the first two areas of emphasis. These members are found above the squadron level in group, wing, and MAJCOM positions.

Representative task modules for this cluster include:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0028	Shift Supervision	16	19.9	68
0031	Maintenance Management	18	16.5	59
0030	CAMS Support	13	7.1	38
0029	Maintenance Coordination	6	3.9	47
0034	On-the-Job Training	4	2.0	41
0032	Safety Programs	4	2.0	42
0033	Organization Planning	5	1.9	33

X. **SAFETY JOB (STG718)**. Incumbents holding this job report spending 32 percent of their time inspecting and evaluating programs and work areas. They report to senior Air Force managers on safety issues and program goals and results. While members perform few tasks on average (36 tasks), they perform in-depth evaluations of safety programs. Representative tasks for this job include:

- Evaluate safety programs
- Evaluate local munitions hazards
- Implement safety programs
- Investigate accidents or incidents
- Inspect munitions assembly or maintenance areas
- Prepare explosives safety waivers

SAFETY JOB	
Number of members	31
Percent of total sample	<1%
Average number of tasks performed	36
Average time in present job	4.5 yrs
Average time in career field	16.3 yrs
Average TAFMS	17.9 yrs
Predominant DAFSC	2W171
Predominant paygrades	E-7
Predominant MAJCOM	ACC
Percent of AFRES/ANG	0/32%

These senior NCOs average more than 17 years in the service, making them some of the most experienced in the ladder. Ninety percent of incumbents hold the 7-skill level. Nearly all are assigned at the group and wing level, although a handful are in one-deep Squadron level jobs. Members reported the second highest job satisfaction of the ladder, after the Quality Assurance job.

Representative task modules for this cluster include:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0032	Safety Programs	4	15.8	89
0031	Maintenance Management	18	14.7	28
0035	Personnel Evaluation	4	2.3	20
0037	Training and Testing	7	3.7	25

XI. INSTRUCTOR JOB (STG184). Members holding the Instructor job spend the majority of their time developing their lesson plans, preparing training materials, and working with tests. They also spend time counseling trainees on progress. These functions distinguish them from all the other jobs in the ladder. Representative tasks for this job include:

- Administer tests
- Score tests
- Conduct resident course classroom training
- Maintain training records, charts, or graphs
- Counsel trainees on progress
- Write test questions

INSTRUCTOR JOB	
Number of members	57
Percent of total sample	<1%
Average number of tasks performed	36
Average time in present job	2 yrs
Average time in career field	12.5 yrs
Average TAFMS	12.5 yrs
Predominant DAFSC	2W171
Predominant paygrades	E-6
Predominant MAJCOM	AETC
Percent of AFRES/ANG	0/0

Representative task modules are:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0037	Training and Testing	7	19.9	64
0028	Shift Supervision	16	15.5	26
0038	Resident Training	4	8.7	48

XII. MOBILITY JOB (STG876). Members of the Mobility job perform distinct support tasks. They spend their time planning, implementing, and evaluating all phases of mobility exercises. These tasks are not part of the main jobs of the career ladder. However, they function as a vital part of the deployment process and often help maintain well-trained units of armament systems technicians. Representative tasks for this cluster include:

- Coordinate mobility or contingency plans or requirements with participating units
- Develop unit mobility procedures for deployment of equipment or personnel
- Direct mobility exercises or operations
- Determine equipment requirements for mobility or deployments
- Maintain contingency plans
- Conduct unit mobility self-inspections

MOBILITY JOB	
Number of members	21
Percent of total sample	<1%
Average number of tasks performed	64
Average time in present job	2.9 yrs
Average time in career field	16 yrs
Average TAFMS	17 yrs
Predominant DAFSC	2W171
Predominant paygrades	E-7
Predominant MAJCOM	ACC
Percent of AFRES/ANG	0/0

Incumbents average more than 16 years in the field and 17 years in the service. The predominant paygrades are E-6 and E-7. These members are second only to the Supervision cluster, as far as experience in the Air Force.

Representative task modules for this job include:

TM	Module Title	No. of Tasks	Percent Time Spent	Avg. Percent Members Perf.
			Sum	
0049	Mobility Coordination and Feasibility	11	12.8	65
0047	Mobility Team Construction	8	11.7	76
0050	Mobility Report Findings	8	9.0	71
0015	Mobility Chemical Warfare Prep	10	6.0	46
0048	Mobility Deployment Planning	4	5.7	87
0033	Organization Planning	5	3.5	40

Comparison of Current Job Structure to Previous Study

The results of the specialty job analysis were compared to those of the last Aircraft Armament Systems OSR published in 1986. As shown in Table 5, seven jobs in the current study were also identified in 1986. Five jobs, however, were identified in this survey but not identified in the 1986 survey. These were the Gun Shop cluster, Maintenance Debrief, Weapons Expediter,

TABLE 5

SPECIALTY JOB COMPARISONS BETWEEN CURRENT AND 1986 SURVEYS

<u>CURRENT SURVEY (N=7,000)</u>	<u>PERCENT OF SAMPLE</u>		<u>1986 SURVEY (N=4,521)</u>	<u>PERCENT OF SAMPLE</u>
FLIGHTLINE LOADING CLUSTER	52	—	FLIGHTLINE PERSONNEL	46
IN-SHOP MAINTENANCE CLUSTER	13	—	IN-SHOP PERSONNEL	11
GUN SHOP MAINTENANCE CLUSTER	3	—	NOT MATCHED	
AERIAL GUNNER JOB	2	—	AIRBORNE GUNNERS	1
MAINTENANCE DEBRIEF JOB	<1	—	NOT MATCHED	
SUPPORT JOB	4	—	SUPPORT PERSONNEL	6
WEAPONS EXPEDITER JOB	<1	—	NOT MATCHED	
QUALITY ASSURANCE JOB	1	—	QA/QC PERSONNEL	1
SUPERVISION CLUSTER	12	—	SUPERVISORS AND ADMINISTRATORS	16
SAFETY JOB	<1	—	NOT MATCHED	
INSTRUCTOR JOB	<1	—	INSTRUCTORS	2
MOBILITY JOB	<1	—	NOT MATCHED	
NOT MATCHED		—	TRAILER MAINT PERSONNEL	1
NOT GROUPED	11	—	NOT GROUPED	16

* Denotes less than 1 percent

- Indicates no match in report

Safety, and Mobility jobs. One job, Trailer Maintenance Personnel, was identified in the 1986 survey, but was not identified as a distinct group in the present study. In both surveys, a large group of Flightline Loading Personnel were identified as the core job. This core job comprised 46 percent of the 1986 sample, compared to 52 percent of the 1993 sample.

ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups, in conjunction with the analysis of the career ladder structure, is an important part of each occupational survey. The DAFSC analysis identifies differences in tasks performed at the various skill levels. This information may then be used to evaluate how well career ladder documents, such as *AFMAN 36-2108 Specialty Descriptions* and the STS, reflect what career ladder personnel are actually doing in the field. The following analysis of skill levels combines Active Duty, ANG, and AFRES personnel. The only noteworthy difference between Active and Guard/Reserve is the higher number of tasks performed by the Guard and Reserve groups.

The 3-skill level shreds are discussed together to simplify the tables and the DAFSC descriptions that follow. However, Table 6 displays the shreds separately to show where the different shreds are working across career ladder jobs.

The distribution of skill-level groups across the specialty jobs is displayed in Table 6. Table 7 offers another perspective by displaying the relative percent time spent on each duty across the skill-level groups. A typical pattern of progression is present, with personnel spending more of their relative time on duties involving supervisory, managerial, and training tasks as they move upward toward the 7-skill level, 9-skill level, or the CEM code. It is also obvious, though, that 7-skill level personnel are still involved with technical task performance, as will be pointed out in the specific skill-level group discussions below.

Skill-Level Descriptions

DAFSC 2W131. The 670 3-skill level airmen (representing 10 percent of the survey sample) perform an average of only 63 tasks, with 53 tasks accounting for over 50 percent of their relative job time. Performing a diverse and technical job, members spend 33 percent of their time performing on-equipment maintenance, 22 percent loading and unloading munitions, and 14 percent performing general duty functions (see Table 7). Table 8 displays representative tasks performed by the highest percentages of these airmen.

DAFSC 2W151. The 3,167 5-skill level airmen (45 percent of the survey sample) perform an average of 79 tasks, with 88 tasks accounting for over half of their relative job time. At the 5-skill level, members perform a greater diversity of jobs than the 3-skill levels, as shown in Table 6. Performing a highly technical job, 73 percent of their relative job time is devoted to duties

TABLE 6

**DISTRIBUTION OF MEMBERS BY DAFSC ACROSS
CAREER LADDER JOBS (MEMBERS RESPONDING)**

JOB	NUMBER MEMBERS:	DAFSC 2W131								DAFSC 2W151 3,167	DAFSC 2W171 2,744	DAFSC 2W191/00 395
		C 44	D 15	E 223	F 226	H 35	K 66	L 33	Z 26			
FLIGHTLINE LOADING CLUSTER		31	0	180	145	30	25	20	0	2,004	1,130	0
IN-SHOP MAINTENANCE CLUSTER		9	0	27	45	0	9	0	0	475	310	9
GUN SHOP MAINTENANCE CLUSTER		0	0	0	0	0	0	0	17	141	79	2
AERIAL GUNNER JOB		0	0	0	0	0	0	0	0	57	50	5
MAINTENANCE DEBRIEF JOB		0	0	0	0	0	0	0	0	28	21	0
SUPPORT JOB		0	0	0	3	0	2	0	0	151	112	2
WEAPONS EXPEDITER JOB		0	0	0	0	0	0	0	0	2	12	1
QUALITY ASSURANCE JOB		0	0	0	0	0	0	0	0	2	62	5
SUPERVISION CLUSTER		0	0	0	0	0	0	0	0	42	519	285
SAFETY JOB		0	0	0	0	0	0	0	0	1	28	2
INSTRUCTOR JOB		0	0	0	0	0	0	0	0	14	41	2
MOBILITY JOB		0	0	0	0	0	0	0	0	1	18	2
NOT GROUPED		4	15	18	33	5	30	13	9	249	362	0

TABLE 7
TIME SPENT ON DUTIES BY MEMBERS OF DAFSC GROUPS
(RELATIVE PERCENT OF JOB TIME)

DUTIES	DAFSC			
	2W131 (N=670)	2W151 (N=3167)	2W171 (N=2744)	2W191/60 (N=395)
A ORGANIZING AND PLANNING	0	2	11	26
B DIRECTING AND IMPLEMENTING	0	2	10	21
C INSPECTING AND EVALUATING	0	2	10	20
D TRAINING	0	2	7	7
E PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	*	3	5	6
F PERFORMING CORE AUTOMATED MAINTENANCE SYSTEMS (CAMS) ACTIVITIES	1	4	7	5
G PERFORMING GENERAL DUTY FUNCTIONS	14	13	8	2
H PERFORMING ON-EQUIPMENT INSPECTION, CLEANING, AND LUBRICATION OF AIR LAUNCH AND RELEASE SYSTEMS	11	8	5	1
I PERFORMING ON-EQUIPMENT OPERATIONAL OR FUNCTIONAL CHECKS OF AIR LAUNCH AND RELEASE SYSTEMS	13	11	6	*
J PERFORMING ON-EQUIPMENT MAINTENANCE OF AIR LAUNCH AND RELEASE SYSTEMS AND COMPONENTS	9	8	4	*
K PERFORMING IN-SHOP MAINTENANCE OF AIR LAUNCH AND RELEASE SYSTEMS AND COMPONENTS AND ALTERNATE MISSION EQUIPMENT	7	5	3	*
L PERFORMING FLIGHTLINE OR INFLIGHT MAINTENANCE OF AIRCRAFT GUN SYSTEMS	6	6	3	*
M PERFORMING IN-SHOP MAINTENANCE OF AIRCRAFT GUN SYSTEMS	3	2	1	0
N MAINTAINING SUPPORT EQUIPMENT AND MUNITIONS HANDLING EQUIPMENT	6	5	2	0
O LOADING OR UNLOADING MUNITIONS AND WEAPONS	22	17	9	1
P PERFORMING AERIAL GUN OPERATIONS	0	1	1	*
Q TRANSPORTING, HANDLING, AND STORING MUNITIONS	1	1	*	0
R PERFORMING CROSS UTILIZATION TRAINING (CUT) TASKS	3	2	1	*
S PERFORMING CONTINGENCY AND MOBILITY FUNCTIONS	2	3	3	8

* Denotes less than 1 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 8

REPRESENTATIVE TASKS PERFORMED BY DAFSC 2W131 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=670)
G192	Clean facilities	87
G202	Perform foreign object damage prevention walks	86
G194	Inspect composite tool kits	72
G199	Maintain composite tool kits	66
G201	Perform aircraft safe for maintenance procedures	66
I254	Functionally or electrically check bomb or ejector racks	66
O707	Remove or install impulse cartridges	65
G203	Perform operator maintenance or self-tests on armament systems testers	65
O665	Arm or dearm aircraft armament systems, other than gun systems	64
O682	Load or unload flares onto or from aircraft	63
O679	Load or unload chaff onto or from aircraft	62
J321	Remove or install pylons or adapters	57
I296	Perform stray voltage checks	57
I252	Functionally or electrically check aircraft conventional bomb release systems	56
O680	Load or unload conventional munitions or equivalent training items onto or from aircraft	54
O704	Remove or install argon bottles	54
J313	Remove or install chaff or flare dispensers	54
O698	Prepare for loading conventional munitions onto aircraft	53
O668	Inspect argon bottles	52

covering flightline and in-shop maintenance of armament systems (see Table 7). Table 9 displays representative tasks performed by the highest percentages of these airmen. Members are distinguished from their 3-skill level counterparts by the greater number of tasks and the small amount of supervision they perform (see Table 10).

DAFSC 2W171. The NCOs in the 7-skill level group (39 percent of the survey sample) perform an average of 78 tasks. Thirty-eight percent of their relative job time is spent on the usual supervisory, managerial, and training duties (see Table 7). While the display of tasks in Table 11 clearly shows supervisory responsibilities, it also reflects a technical job as well. Members still spend 50 percent of their relative job time performing a variety of the most technical tasks in the field, such as removing or installing impulse cartridges and troubleshooting various armament systems. Table 12 displays those tasks that more clearly differentiate between the 5- and 7-skill level groups. These tasks focus on managing some maintenance functions, counseling people, conducting performance feedback, and planning work assignments.

DAFSC 2W191/CEMs. The 395 senior NCOs in the 9-skill level/CEM group (6 percent of the survey sample) perform an average of 65 tasks. Table 7 shows that 85 percent of their relative job time is spent on supervisory and management functions. It also reflects that these senior NCOs perform limited technical AFSC-specific tasks (accounting for less than 8 percent of their relative job time). Table 13 reflects the upper level management responsibilities.

Summary

Three- and 5-skill level airmen perform many tasks in common, and both groups spend the vast majority of their relative job time on technical AFSC-specific maintenance tasks. The 7-skill level group performs many supervisory and management tasks, on top of the technical tasks performed by 3- and 5-skill level members. The 9-skill level/CEM perform supervisory and management activities.

ANALYSIS OF AFMAN 36-2108 SPECIALTY DESCRIPTIONS

Survey data were compared to final draft of *AFMAN 36-2108 Specialty Descriptions* for Aircraft Armament Systems, dated 30 April 1991.

The combined 3- and 5-skill level *Specialty Description* appears complete and accurately portrays the range and technical nature of the job. The description for the craftsman (AFSC 2W171) accurately reflects both the supervisory and the previously discussed technical nature of the job. The combined 9-skill level and CEM *Specialty Description* accurately reflects the dominance of supervisory and management activities performed by these members.

TABLE 9

REPRESENTATIVE TASKS PERFORMED BY DAFSC 2W151 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=3,167)
G192	Clean facilities	85
G202	Perform foreign object damage (FOD) prevention walks	76
G194	Inspect composite tool kits	74
G201	Perform aircraft safe for maintenance procedures	65
I254	Functionally or electrically check bomb or ejector racks	64
G199	Maintain composite tool kits	63
O665	Arm or dearm aircraft armament systems, other than gun systems	62
G203	Perform operator maintenance or self-tests on armament systems testers	61
O707	Remove or install impulse cartridges	61
I252	Functionally or electrically check aircraft conventional bomb release systems	58
O682	Load or unload flares onto or from aircraft	56
O679	Load or unload chaff onto or from aircraft	55
O680	Load or unload conventional munitions or equivalent training items onto or from aircraft	54
O698	Prepare for loading conventional munitions onto aircraft	53
I296	Perform stray voltage checks	52
O666	Functionally or electrically check aircraft conventional armament circuits	52
I259	Functionally or electrically check jettison or emergency release systems, such as armament or fuel pylon	51
H243	Inspect pylons	50
G197	Locate part numbers from illustrated parts breakdowns	49
I262	Functionally or electrically check pylon systems	48
I268	Operationally or mechanically check bomb or ejector racks	48
O669	Inspect chaff or flare ejector units or mods	47
G196	Issue or receive tools or test equipment	46

TABLE 10

TASKS WHICH BEST DIFFERENTIATE BETWEEN
DAFSC 2W131 AND DAFSC 2W151 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		2W131 (N=649)	2W151 (N=3,167)	DIFFERENCE
D111	Conduct OJT	2	23	-21
F171	Create aircraft or support equipment maintenance discrepancies in CAMS	14	35	-21
B69	Supervise Aircraft Armament Systems Specialists (AFSC DAFSC 2W151)	0	21	-21
D116	Demonstrate how to locate technical information	3	22	-19
A14	Determine work priorities	1	20	-19
B72	Supervise Apprentice Aircraft Armament Systems Specialists (DAFSC 2W131)	0	19	-19
C81	Evaluate individuals for compliance with performance standards	0	18	-18
B37	Counsel personnel on personal or military-related matters	0	17	-17
C103	Prepare EPRs	0	17	-17
D115	Counsel trainees on training progress	0	17	-17
G197	Locate part numbers from illustrated parts breakdowns	31	47	-16

TABLE 11

REPRESENTATIVE TASKS PERFORMED BY DAFSC 2W171 PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=2,744)
C103 Prepare EPRs	70
G194 Inspect composite tool kits	66
C78 Conduct performance feedback worksheet (PFW) sessions	65
B37 Counsel personnel on personal or military-related matters	63
B69 Supervise Aircraft Armament Systems Specialists (AFSC 2W151)	61
A14 Determine work priorities	61
C81 Evaluate individuals for compliance with performance standards	59
G202 Perform foreign object damage prevention walks	59
G192 Clean facilities	56
A21 Establish performance standards for subordinates	49
G201 Perform aircraft safe for maintenance procedures	47
A28 Plan work assignments	47
F171 Create aircraft or support equipment maintenance discrepancies in CAMS	47
G197 Locate part numbers from illustrated parts breakdowns	47
D111 Conduct OJT	46
F169 Clear or close out completed aircraft maintenance discrepancies in CAMS	44
D116 Demonstrate how to locate technical information	43
D127 Maintain training records, charts, or graphs	43
D115 Counsel trainees on training progress	43
G203 Perform operator maintenance or self-tests on armament systems testers	40
O694 Perform munitions postload inspections	39
C88 Evaluate personnel on qualification tasks	39
I254 Functionally or electrically check bomb or ejector racks	39
B72 Supervise Apprentice Aircraft Armament Systems Specialists (AFSC 2W131)	39
G199 Maintain composite tool kits	37

TABLE 12

TASKS WHICH BEST DIFFERENTIATE BETWEEN
DAFSC 2W151 AND DAFSC 2W171 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS	2W151 (N=3,167)	2W171 (N=2,744)	DIFFERENCE
G192 Clean facilities	85	61	23
G199 Maintain composite tool kits	62	41	21
O679 Load or unload chaff onto or from aircraft	55	37	18
O707 Remove or install impulse cartridges	61	43	18
O682 Load or unload flares onto or from aircraft	56	38	18
O665 Arm or disarm aircraft armament systems, other than gun systems	63	45	17
I254 Functionally or electrically check bomb or ejector racks	64	47	17
B69 Supervise Aircraft Armament Systems Specialists (AFSC 2W151)	21	59	-38
B37 Counsel personnel on personal or military-related matters	17	54	-36
A14 Determine work priorities	20	56	-36
C103 Prepare EPRs	17	53	-35
C81 Evaluate individuals for compliance with performance standards	19	51	-32
C78 Conduct performance feedback worksheet sessions	17	49	-32
A28 Plan work assignments	12	43	-32
B71 Supervise Aircraft Armament Systems Technicians (AFSC 2W171)	0	30	-30
A21 Establish performance standards for subordinates	14	41	-27

TABLE 13

REPRESENTATIVE TASKS PERFORMED BY DAFSC 2W191/00 PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=395)
B37 Counsel personnel on personal or military-related matters	82
A1 Assign personnel to duty positions	78
C103 Prepare EPRs	78
B36 Conduct briefings, meetings, or conferences	76
B76 Write correspondence	76
C95 Indorse enlisted performance reports (EPRs)	70
A32 Schedule leaves or passes	69
A11 Determine requirements for space, personnel, equipment, or supplies	68
A35 Select personnel for temporary duty (TDY) requirements	68
C78 Conduct performance feedback worksheet (PFW) sessions	68
C81 Evaluate individuals for compliance with performance standards	67
A21 Establish performance standards for subordinates	66
B67 Interpret policies, directives, or procedures for subordinates	62
A30 Prepare job descriptions	61
C77 Analyze workload requirements	60
C82 Evaluate individuals for promotion, demotion, or reclassification	59
B71 Supervise Aircraft Armament Systems Technicians (AFSC 2W171)	56
A18 Develop work methods or procedures	55
A28 Plan work assignments	54

TRAINING ANALYSIS

Occupational surveys provide sources of information that can be used to assist in the development of training programs relevant to the needs of personnel in their first enlistment. Factors that may be used in evaluating training include the overall description of the job being performed by first-enlistment personnel and the personnel distribution across career ladder jobs. Percentage members performing specific tasks or using certain equipment or tools are available for first job (1-24 months' TAFMS) or first enlistment (1-48 months)

First-Enlistment Personnel

In this study there are 1,383 active duty members in their first enlistment (1-48 months' TAFMS), representing 20 percent of the survey sample. No guard or reserve personnel are included in any of the year groups because their TAFMS records are different from the active duty members. The jobs performed by these personnel are primarily in three areas: flightline loading, in-shop maintenance, and gun shop maintenance (see Figure 2). The main difference between the flightline job and the two in-shop areas is the amount of time members spend loading and unloading munitions on the flightline. The emphasis of the in-shop areas is maintenance of weapons release systems, and repair and checkout of aircraft gun systems, both internal mounted and external mounted. Tables 15 and 16 describe the work performed by these members, with a listing of time spent in duties and the top tasks performed by them. The most common munitions that members load are listed in Table 17. Most members are loading munitions on the F-16 and F-15. This can be confirmed by comparing Table 14 (Type of Aircraft Supported) with the items in Table 17. A similar listing is presented in Table 18 for equipment used by first-enlistment personnel. Again the flightline equipment is the most commonly used.

TE and TD Data

TE and TD are secondary factors that can assist technical school personnel in deciding which tasks should be emphasized in entry-level training. These ratings, based on the judgments of senior career ladder NCOs working at operational units in the field, are collected to provide training personnel with a rank-ordering of those tasks in the JI considered important for first-enlistment personnel training (TE) (see Table 19 for the top rated tasks), along with a measure of the difficulty of the JI tasks (TD) (see the highest rated tasks presented in Table 20). When combined with data on the percentages of first-enlistment personnel performing tasks, comparisons can then be made to determine if training adjustments are necessary. For example, tasks receiving high ratings on both task factors, accompanied by moderate to high percentages performing, may warrant resident training. Those tasks receiving high task factor ratings, but low percentages performing, may be more appropriately planned for OJT programs within the career

AFSC 2W1X1 FIRST-ENLISTMENT JOBS

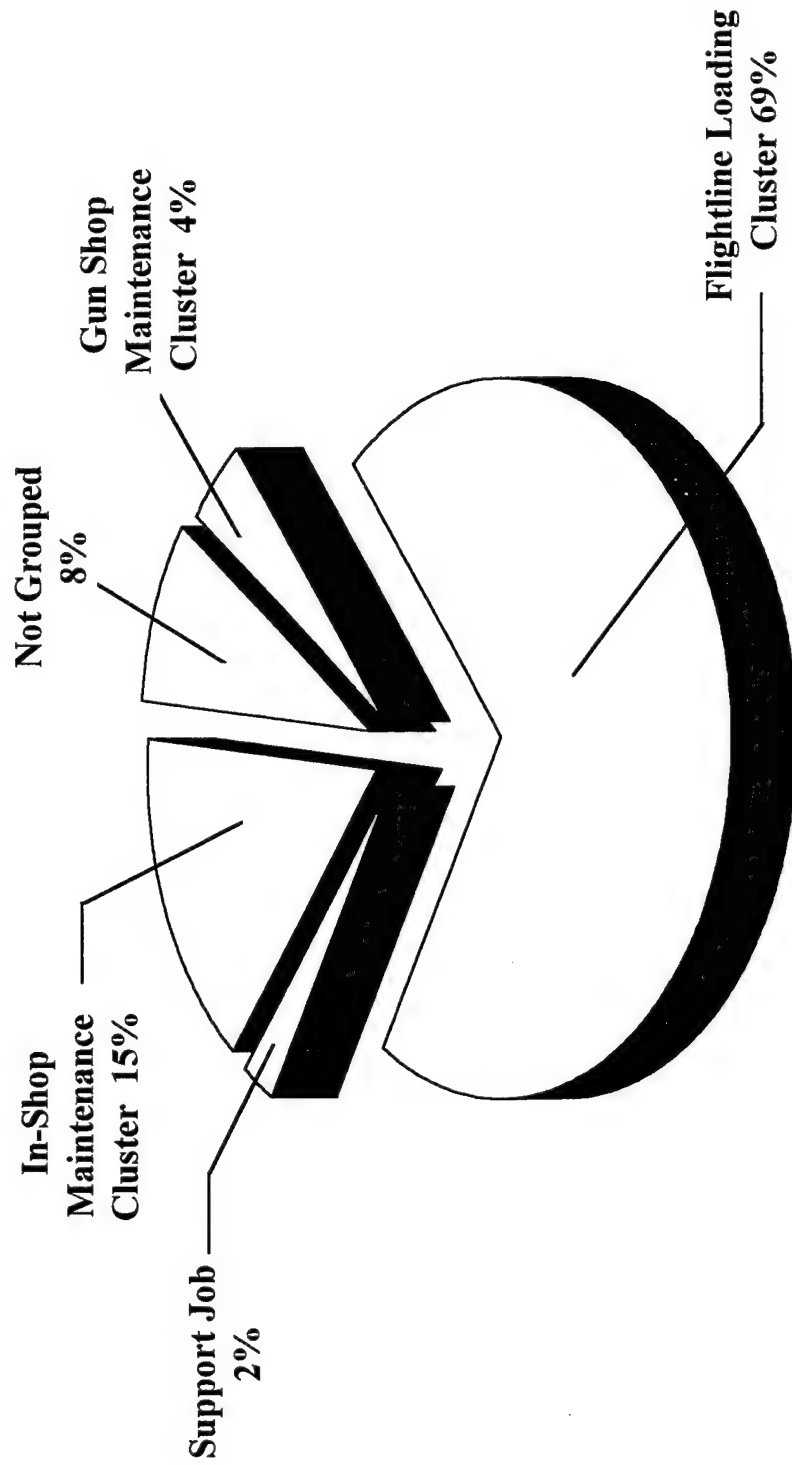


FIGURE 2

TABLE 14

DISTRIBUTION OF SKILL-LEVEL MEMBERS
ACROSS AIRCRAFT MAINTAINED
(PERCENT MEMBERS RESPONDING **)

AIRCRAFT MAINTAINED	ACTIVE DAFSC		ANG DAFSC		AFRES DAFSC	
	2W131* (N=649)	2W151 (N=2,539)	2W171 (N=2020)	2W151 (N=488)	2W171 (N=579)	2W171 (N=140)
F-16A/B/C/D	36	33	29	81	73	64
F-15A/B/C/D/E	37	27	25	11	13	0
OA/OV/A-10A	8	12	12	14	19	33
B-52G/H	10	10	9	0	0	0
EF/F-111A/D/E/F/G	8	8	7	0	0	0
RF/F-4C/D/E/G	4	5	6	21	0	24
B-1B	5	6	6	0	0	0

* Data include all 3-skill level shreds

** Members may maintain more than one type of aircraft

TABLE 15

RELATIVE PERCENT OF TIME SPENT ACROSS DUTIES BY
FIRST-ENLISTMENT AFSC 2W1X1 PERSONNEL

<u>DUTIES</u>		<u>PERCENT TIME SPENT</u>
A	ORGANIZING AND PLANNING	0
B	DIRECTING AND IMPLEMENTING	0
C	INSPECTING AND EVALUATING	*
D	TRAINING	*
E	PERFORMING ADMINISTRATIVE AND SUPPLY FUNCTIONS	1
F	PERFORMING CORE AUTOMATED MAINTENANCE SYSTEMS (CAMS) ACTIVITIES	2
G	PERFORMING GENERAL DUTY FUNCTIONS	14
H	PERFORMING ON-EQUIPMENT INSPECTION, CLEANING, AND LUBRICATION OF AIR LAUNCH AND RELEASE SYSTEMS	11
I	PERFORMING ON-EQUIPMENT OPERATIONAL OR FUNCTIONAL CHECKS OF AIR LAUNCH AND RELEASE SYSTEMS	13
J	PERFORMING ON-EQUIPMENT MAINTENANCE OF AIR LAUNCH AND RELEASE SYSTEMS AND COMPONENTS	9
K	PERFORMING IN-SHOP MAINTENANCE OF AIR LAUNCH AND RELEASE SYSTEMS AND COMPONENTS AND ALTERNATE MISSION EQUIPMENT	7
L	PERFORMING FLIGHTLINE OR INFLIGHT MAINTENANCE OF AIRCRAFT GUN SYSTEMS	6
M	PERFORMING IN-SHOP MAINTENANCE OF AIRCRAFT GUN SYSTEMS	2
N	MAINTAINING SUPPORT EQUIPMENT AND MUNITIONS HANDLING EQUIPMENT	5
O	LOADING OR UNLOADING MUNITIONS AND WEAPONS	20
P	PERFORMING AERIAL GUN OPERATIONS	0
Q	TRANSPORTING, HANDLING, AND STORING MUNITIONS	2
R	PERFORMING CROSS-UTILIZATION TRAINING (CUT) TASKS	3
S	PERFORMING CONTINGENCY AND MOBILITY FUNCTIONS	2

* Denotes less than 1 percent

NOTE: Time Spent does not total 100 percent due to rounding

TABLE 16

REPRESENTATIVE TASKS PERFORMED BY
FIRST-ENLISTMENT AFSC 2W1X1 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=1,383)
G192	Clean facilities	89
G202	Perform foreign object damage prevention walks	85
G194	Inspect composite tool kits	75
G199	Maintain composite tool kits	68
I254	Functionally or electrically check bomb or ejector racks	68
O665	Arm or dearm aircraft armament systems, other than gun systems	66
G201	Perform aircraft safe for maintenance procedures	66
G203	Perform operator maintenance or self-tests on armament	66
O707	Remove or install impulse cartridges	65
O682	Load or unload flares onto or from aircraft	62
O679	Load or unload chaff onto or from aircraft	61
I252	Functionally or electrically check aircraft conventional bomb release systems	60
I296	Perform stray voltage checks	59
O680	Load or unload conventional munitions or equivalent training items onto or from aircraft	57
I321	Remove or install pylons or adapters	55
H243	Inspect pylons	55
O698	Prepare for loading conventional munitions onto aircraft	54
H210	Clean and lubricate bomb or rocket dispenser mechanical components	53
G196	Issue or receive tools or test equipment	50
I259	Functionally or electrically check jettison or emergency release systems, such as armament or fuel pylon	50

TABLE 17

MUNITIONS ITEMS LOADED BY MORE THAN 30 PERCENT OF
FIRST-ENLISTMENT AFSC 2W1X1 PERSONNEL

<u>EQUIPMENT</u>	<u>1ST ENL (N=1,383)</u>
MAU-12 BOMB RACKS, ALL TYPES	65
AIM-9	61
IMPULSE CARTRIDGES	61
BOMB, PRACTICE, BDU-33, 48, OR 50	58
AIM-9 LAUNCHERS	57
BOMB, GENERAL PURPOSE, MK-81, -84, OR -118	50
AMMUNITION, 20MM	48
AIM-9 MISSILE LAUNCHER ADAPTERS	44
SUU-20 BOMB/ROCKET DISPENSERS	44
TRIPLE EJECTOR RACKS (TERS)	41
CLUSTER BOMB UNITS, CBU-58, SUU-30, OR MK-20	40
AIM-120 (AMRAAM)	39
GUN, M-61/A1	33
AGM-65	31
ALE-40 CHAFF/FLARE MAGAZINE	31
LAU-117/A SINGLE RAIL LAUNCHERS	31

TABLE 18

EQUIPMENT ITEMS USED BY MORE THAN 30 PERCENT OF
FIRST-ENLISTMENT AFSC 2W1X1 PERSONNEL

<u>EQUIPMENT</u>	<u>1ST ENL (N=307)</u>
TORQUE WRENCHES	87
BOMB LIFT TRUCKS, MJ-1A/B	69
ARMING LOOPS	65
GAUGES, GO/NO-GO	56
LIGHT-ALLS OR FLOODLIGHT SETS	49
BOMB LIFT TRUCK ACCESSORIES	48
MAINTENANCE STANDS	47
MUNITIONS HANDLING TRAILERS	47
RADIOS, ALL TYPES	45
AMMUNITION LOADING SYSTEMS, ALA/ALS	43
AIR CONDITIONERS, AM32C-10	40
WIRING DIAGRAMS	40
MANUALLY OP LIFT TRUCKS (MOLTS), MHU-194/E	39
TROUBLESHOOTING GUIDES	39
VOLTAGE DETECTORS	38
PYLON HANDLING ADAPTERS	36
BOMB LOADING TRAILERS	35
SCHEMATICS	35
AIM-120 WING TOOLS	34
AIR COMPRESSORS, MC-2A	32
GAUGES, THICKNESS	32
COMPUTER TERMINALS	31
HAND CRANKS, 20MM	30
TESTERS, DETENT	30

TABLE 19

TASKS WITH HIGHEST TRAINING EMPHASIS RATINGS

TASKS	ENG EMP	PERCENT MEMBERS PERFORMING				TSK DIFF
		1ST JOB	1ST ENL	1ST ENL	TSK DIFF	
G201	6.67	68	66	66	3.82	
I254	6.00	68	68	68	4.94	
G197	5.96	34	40	40	4.37	
F169	5.93	22	27	27	4.62	
G203	5.76	66	66	66	3.83	
O665	5.71	65	66	66	4.22	
O666	5.64	45	48	48	4.83	
I256	5.51	43	46	46	4.94	
I252	5.49	58	60	60	5.14	
F171	5.44	15	21	21	4.72	
G199	5.40	69	68	68	3.57	
I259	5.31	47	50	50	4.79	
O680	5.13	54	57	57	4.90	
I268	5.09	51	52	52	4.82	
I262	5.07	52	52	52	5.00	
G204	5.07	36	37	37	4.05	
O707	4.93	65	65	65	2.61	
J311	4.91	49	48	48	4.62	
G202	4.84	86	85	85	1.40	
G209	4.78	27	29	29	4.66	
I296	4.76	58	58	58	4.22	

TE MEAN = 1.64; S.D. = 1.30 (HIGH = 2.94)

TD MEAN = 5.00; S.D. = 1.00

TABLE 20

TASKS WITH HIGHEST TASK DIFFICULTY RATINGS

TASKS	PERCENT MEMBERS PERFORMING					TNG EMP
	TSK DIFF	1ST JOB	1ST ENL	2W/151	2W/171	
J360	7.55	7	9	11	8	2.42
C105	7.44	0	0	1	5	.18
J352	7.32	11	15	19	13	4.09
S825	7.32	0	0	0	1	.18
J353	7.31	8	11	14	9	3.53
J373	7.30	14	18	24	17	3.93
L484	7.29	12	16	23	17	4.02
J376	7.26	13	15	19	14	2.60
J367	7.24	21	27	31	22	3.78
F190	7.22	0	0	1	1	.18
J377	7.22	1	2	2	1	1.13
J387	7.21	2	2	2	2	1.18
L483	7.19	2	3	3	2	2.13
J380	7.17	0	0	0	0	.73

TD MEAN = 5.00; S.D. = 1.00

TE MEAN = 1.64; S.D. = 1.30 (HIGH = 2.94)

ladder. Low task factor ratings may highlight tasks best omitted from training for first-enlistment personnel, but this decision must be weighed against percentages of personnel performing the tasks, command concerns, and criticality of the tasks.

To assist technical school personnel, AFOMS has developed a computer program that incorporates these secondary factors and the percentage of first-enlistment personnel performing each task to produce an Automated Training Indicator (ATI) for each task. These indicators correspond to training decisions listed and defined in the Training Decision Logic Table found in Attachment 1, AETCR 52-22, and allow course personnel to quickly focus their attention on those tasks that are most likely to qualify for ABR course consideration.

Tasks having the highest TE ratings are listed in Table 19. Included for each task are the percentage of first-job and first-enlistment personnel performing and the TD rating. As illustrated by the tasks, most apply to the routine checks and maintenance of aircraft armament systems when members are loading or unloading munitions.

Table 20 lists the tasks having the highest TD ratings. The percentages of first-job, first-enlistment, 5-, and 7-skill level personnel performing, and the TE rating are also included for each task. The majority of tasks with high difficulty are not performed by high percentages of any group, but four tasks have fairly high TE ratings. Many of the tasks with high TD values are related to isolating malfunctions and other electrical tasks.

Various lists of tasks, accompanied by TE and TD ratings, and where appropriate, ATI information, are contained in the Training Extract package and should be reviewed in detail by technical school personnel. (For a more detailed explanation of TE and TD ratings, see Task Factor Administration in the **SURVEY METHODOLOGY** section of this report.)

Specialty Training Standard (STS)

A comprehensive review of STS 2W1X1 (462X0), dated October 1992, was made by comparing survey data to STS elements. Six SMEs from six bases around the world matched JI tasks to appropriate STS sections and subsections. A complete computer listing displaying the percent members performing tasks, TE and TD ratings for each task, along with the STS matchings, has been forwarded to the technical school for their review of the training documents. A complete computer listing for equipment items operated and forms used by Armament Systems Specialty personnel has also been forwarded to the school.

Typically, STS sections and subsections matched to tasks which have sufficiently high TE and TD ratings, and are performed by at least 20 percent or personnel in appropriate experience or skill-level groups (such as first-enlistment (1-48 months' TAFMS) and 5- and 7-skill level groups), are considered to be supported and should be considered for inclusion in the STS. Likewise, paragraphs having tasks with less than 20 percent performing across all of the criterion groups should be considered for deletion from the STS.

The standard criterion groups were not used to evaluate the STS in this case because the technical sections of the STS are divided by aircraft. Instead, the criterion groups were separated by aircraft, giving us a better picture of training requirements. After viewing the documents in this fashion, it was easy to see that the STS is well supported by OSR data.

At the end of the Training Extract there is a listing of the tasks not referenced to the STS. Few of these had high ratings on TE, but numerous tasks had high TD ratings. Examples of those with high TE include: identify unexploded ordnances and record aircraft maintenance discrepancies in CAMS. Many of the in-shop troubleshooting tasks were not referenced, although the TE ratings for these tasks were all below average.

JOB SATISFACTION ANALYSIS

An examination of the job satisfaction indicators of various groups can give career ladder managers a better understanding of some of the factors which may affect the job performance of airmen in the career ladder. Questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions were included in the survey booklet to provide indications of job satisfaction. The responses of the current survey sample were then analyzed by making several comparisons: (1) among TAFMS groups of the Aircraft Armament Systems career ladder and a comparative sample of personnel from other Mission Equipment Maintenance career ladders surveyed in 1993 (AFSCs 2A1X2, 2A1XX, 2A4X2, 2A6X3, 2A6X5, 2A7X1, 2A7X3, 2E1X3, 2E2X1, 2E7X1, 2M0XX); (2) between current and previous survey experience groups; and (3) across specialty groups identified in the **SPECIALTY JOBS** section of the report.

Table 21 presents job satisfaction data for AFSC 2W1X1 TAFMS groups, together with data for a comparative sample surveyed during the previous calendar year. These data give a relative measure of how the job satisfaction of AFSC 2W1X1 personnel compares with similar Air Force specialties. Aircraft Armament Systems personnel reported very similar job satisfaction to members of the comparative sample. Overall, satisfaction for all three TAFMS groups in AFSC 2W1X1 is generally positive, but less enthusiastic than similar mission equipment maintenance personnel recently surveyed. These do not appear to signal serious satisfaction problems, since perceived use of training and expressed intent to reenlist were higher than the comparative sample.

Comparison of job satisfaction responses of the current survey TAFMS groups to TAFMS groups in the 1986 survey of AFSC 462X0 survey (see Table 22) indicates that generally the current responses are much higher than the 1986 responses of AFSC 462X0 respondents. Biggest improvements can be seen in the "Expressed Job Interest," "Perceived Use of Talents," and "Perceived Use of Training" categories for the 1-48 months and 49-96 months TAFMS groups.

TABLE 21

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 2W1X1 TAFMS GROUPS IN CURRENT STUDY TO A COMPARATIVE SAMPLE (PERCENT MEMBERS RESPONDING)*

	1-18 MONTHS TAFMS		49-96 MONTHS TAFMS		97+ MONTHS TAFMS	
	2W1X1 (N=1,383)	COMP SAMPLE (N=4,657)	2W1X1 (N=1,401)	COMP SAMPLE (N=1,813)	2W1X1 (N=2,735)	COMP SAMPLE (N=8,073)
EXPRESSED JOB INTEREST						
INTERESTING	66	79	63	75	72	77
SO-SO	20	13	23	15	19	14
DULL	14	8	14	10	9	9
PERCEIVED USE OF TALENTS						
FAIRLY WELL TO PERFECT	72	85	72	81	81	82
NONE TO VERY LITTLE	28	15	28	19	19	18
PERCEIVED USE OF TRAINING						
FAIRLY WELL TO PERFECT	90	87	87	80	82	77
NONE TO VERY LITTLE	10	13	13	20	18	23
SENSE OF ACCOMPLISHMENT FROM JOB						
SATISFIED	65	79	64	73	73	73
NEUTRAL	19	11	18	11	12	10
DISSATISFIED	16	10	18	16	15	17
REENLISTMENT INTENTIONS						
YES OR PROBABLY YES	66	64	81	74	78	74
NO OR PROBABLY NO	34	36	19	26	5	9
WILL RETIRE	0	0	0	0	17	17

* Comparative data are from AFSCs 2E2X1, 2A1X2, 2A6X3, 2E7X1, 2E1X3, 2A6X5, 2A1XX, 2A4X2, 2A7X1, 2M0XX, and 2A7X3 surveyed in 1993

TABLE 22

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 2W1X1 TAFMS GROUPS IN
CURRENT STUDY TO PREVIOUS STUDY (PERCENT MEMBERS RESPONDING)

	1-18 MONTHS TAFMS		49-96 MONTHS TAFMS		97+ MONTHS TAFMS	
	2W1X1 (N=1,383)	1986 462X0 (N=1,586)	2W1X1 (N=1,401)	1986 462X0 (N=1,586)	2W1X1 (N=2,735)	1986 462X0 (N=1,535)
<u>EXPRESSED JOB INTEREST</u>						
INTERESTING	66	50	63	51	72	68
SO-SO	20	28	23	28	19	19
DULL	14	21	14	20	9	12
<u>PERCEIVED USE OF TALENTS</u>						
FAIRLY WELL TO PERFECT	72	61	72	63	81	78
NONE TO VERY LITTLE	28	39	28	37	19	22
<u>PERCEIVED USE OF TRAINING</u>						
FAIRLY WELL TO PERFECT	90	83	87	77	82	75
NONE TO VERY LITTLE	10	14	13	22	18	24
<u>SENSE OF ACCOMPLISHMENT FROM JOB</u>						
SATISFIED	65	53	64	54	73	65
NEUTRAL	19	21	18	18	12	13
DISSATISFIED	16	25	18	27	15	22
<u>REENLISTMENT INTENTIONS</u>						
YES OR PROBABLY YES	66	58	81	73	78	77
NO OR PROBABLY NO	34	41	19	26	5	10
WILL RETIRE	0	0	0	0	17	13

NOTE: Columns may not add to 100 percent due to rounding or nonresponse

An examination of job satisfaction data can also reveal the influences performing certain jobs may have on overall job satisfaction. Table 23 presents job satisfaction data for the major jobs identified in the career ladder structure for AFSC 2W1X1. Job satisfaction indicators for the Support job and Mobility job were the lowest for any of the jobs, while the Aerial Gunner and Quality Assurance jobs had the highest indicators.

IMPLICATIONS

In general, training for this career ladder is right on track. Both the Technical School and MAJCOM representatives agree that OSR data were helpful in guiding their decisionmaking processes at the Utilization and Training Workshop held in August of 1994. The career ladder structure reflects little variance in jobs performed but a wide variety of equipment maintained by career ladder members. Almost 70 percent of members spend their time in a maintenance job, while the remaining members work either in a supervisory, management, or in a few support jobs. Overall job progression is normal and shows a distinct pattern as one moves from the 3-skill level to the 9-skill level. A thorough review of both the STS and various aircraft-related task lists should be conducted by SMEs to ensure that new courses coming on line at Sheppard AFB are appropriate for the ladder.

TABLE 23

JOB SATISFACTION INDICATORS FOR AFSC 2W1X1 JOBS
(PERCENT MEMBERS RESPONDING)

	FLIGHTLINE LOADING CLUSTER (N=3,644)	IN-SHOP MAINT CLUSTER (N=913)	GUN-SHOP MAINT CLUSTER (N=239)	AERIAL GUNNER (N=115)	MAINT DEBRIEF (N=50)	SUPPORT (N=274)
<u>EXPRESSED JOB INTEREST</u>						
INTERESTING	69	74	87	98	72	58
SO-SO	20	18	9	2	14	23
DULL	11	8	4	0	14	18
<u>PERCEIVED USE OF TALENTS</u>						
FAIRLY WELL TO PERFECT	76	84	85	95	76	65
NONE TO VERY LITTLE	24	15	15	4	24	35
<u>PERCEIVED USE OF TRAINING</u>						
FAIRLY WELL TO PERFECT	91	91	87	87	64	61
NONE TO VERY LITTLE	9	9	13	13	36	39
<u>SENSE OF ACCOMPLISHMENT FROM JOB</u>						
SATISFIED	69	80	79	93	72	59
NEUTRAL	16	12	11	1	8	20
DISSATISFIED	15	8	10	5	20	21
<u>REENLISTMENT INTENTIONS</u>						
YES OR PROBABLY YES	80	81	84	83	72	69
NO OR PROBABLY NO	17	15	12	7	12	19
WILL RETIRE	2	4	4	10	16	12

NOTE: Columns may not add to 100 percent due to rounding or nonresponse

TABLE 23 (CONTINUED)

JOB SATISFACTION INDICATORS FOR AFSC 2W1X1 JOBS
(PERCENT MEMBERS RESPONDING)

	WEAPONS EXPEDITER (N=15)	QUALITY ASSURANCE (N=70)	SUPERVISION CLUSTER (N=88)	SAFETY (N=31)	INSTRUCTOR (N=57)	MOBILITY (N=21)
<u>EXPRESSED JOB INTEREST</u>						
INTERESTING	60	93	77	94	72	67
SO-SO	27	7	16	6	14	14
DULL	13	0	6	0	14	19
<u>PERCEIVED USE OF TALENTS</u>						
FAIRLY WELL TO PERFECT	73	97	85	87	82	67
NONE TO VERY LITTLE	27	3	14	13	18	33
<u>PERCEIVED USE OF TRAINING</u>						
FAIRLY WELL TO PERFECT	67	98	86	94	89	29
NONE TO VERY LITTLE	33	1	14	6	11	71
<u>SENSE OF ACCOMPLISHMENT FROM JOB</u>						
SATISFIED	60	94	74	90	77	76
NEUTRAL	20	1	11	6	9	0
DISSATISFIED	20	4	14	3	14	24
<u>REENLISTMENT INTENTIONS</u>						
YES OR PROBABLY YES	60	94	71	65	86	38
NO OR PROBABLY NO	7	1	4	3	4	14
WILL RETIRE	33	4	25	32	11	48

NOTE: Columns may not add to 100 percent due to rounding or nonresponse

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APPENDIX A

**REPRESENTATIVE TASKS PERFORMED BY
MEMBERS OF CAREER LADDER JOBS**

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TABLE A1
FLIGHTLINE LOADING CLUSTER
(STG168)

TASKS	PERCENT MEMBERS PERFORMING (N=3,644)
O665 Arm or dearm aircraft armament systems, other than gun systems	91
O707 remove or install impulse cartridges	90
G202 Perform foreign object damage prevention walks	88
G201 Perform aircraft safe for maintenance procedures	86
G192 Clean facilities	82
O679 Load or unload chaff onto or from aircraft	80
O682 Load or unload flares onto or from aircraft	80
I254 Functionally or electrically check bomb or ejector racks	80
O680 Load or unload conventional munitions or equivalent training items onto or from aircraft	79
O698 Prepare for loading conventional munitions onto aircraft	78
O666 Functionally or electrically check aircraft conventional armament circuits	78
G194 Inspect composite tool kits	77
I252 Functionally or electrically check aircraft conventional bomb release systems	77
O704 Remove or install argon bottles	74
I259 Functionally or electrically check jettison or emergency release systems, such as armament or fuel pylon	73
G203 Perform operator maintenance or self-tests on armament systems testers	72
O691 Perform end-of-runway (EOR) safing procedures	71
I296 Perform stray voltage checks	70
J321 Remove or install pylons or adapters	70
O694 Perform munitions post load inspections	70

TABLE A2
IN-SHOP MAINTENANCE CLUSTER
(STG127)

TASKS	PERCENT MEMBERS PERFORMING (N=913)
K390 Assemble or disassemble bomb or ejector racks	92
G192 Clean facilities	90
K442 Repair bomb or ejector racks	85
G197 Locate part numbers form illustrated parts breakdowns	85
K409 Bench check bomb or ejector racks	84
G203 Perform operator maintenance or self-tests on armament systems testers	80
K424 Bench check pylons	79
G194 Inspect composite tool kits	78
K403 Assemble or disassemble pylons	77
G202 Perform foreign object damage (FOD) prevention walks	76
K459 Troubleshoot bomb or ejector rack electrical components	75
K427 Clean and corrosion-treat weapons release components	75
K452 Repair pylons	74
I254 Functionally or electrically check bomb or ejector racks	68
H226 Inspect electrical wiring or harnesses	68
K460 Troubleshoot bomb or ejector rack mechanical components	67
K436 Remove or install bomb or ejector racks from or onto pylons	67
K400 Assemble or disassemble missile launchers	65
H243 Inspect pylons	65
H227 Inspect external bomb or ejector rack electrical systems	63

TABLE A3
GUN SHOP MAINTENANCE CLUSTER
(STG163)

TASKS		PERCENT MEMBERS PERFORMING (N=239)
G192	Clean facilities	90
M545	Clean or corrosion-treat gun system components	85
L528	Safe and clear gun systems	85
G194	Inspect composite tool kits	83
G197	Locate part numbers from illustrated parts breakdowns	82
G201	Perform aircraft safe for maintenance procedures	79
G202	Perform foreign object damage (FOD) prevention walks	79
L517	Remove or replace ammunition chutes or demand boosters	74
M584	Repair ammunition chutes	74
L482	Clear hot guns	73
M547	Inspect aircraft gun supports or mounts	72
L480	Clean and lubricate internal gun systems	69
L523	Remove or replace recoil cylinders or adapters	68
M572	Perform 20mm gun system periodic inspections	67
L499	Inspect recoil cylinders or adapters	67
L491	Inspect ammunition storage drawers, drums, or cans	67
M539	Assemble or disassemble internal gun systems	65
L513	Perform visual inspections of gun bay areas for FOD	64
L487	Functionally or electrically check internal gun systems	61
L521	Remove or replace internal gun system mechanical components	61

TABLE A4
AERIAL GUNNER JOB
(STG728)

TASKS		PERCENT MEMBERS PERFORMING (N=115)
P731	Perform aircraft scanning functions	98
P739	Preflight aircraft for aerial gun operations	97
P712	Detect and clear gun malfunctions during training or aerial operations	97
P742	Troubleshoot guns during training or aerial operations	96
P718	Load ammunition into containers	96
P728	Operate night vision equipment	96
P721	Load guns during training or aerial operations	95
P738	Post flight aircraft after aerial gun operations	94
P735	Perform preflight inspections of life support equipment	94
P743	Unload aerial gun operation munitions from aircraft	93
P729	Participate in aerial gun operation predeparture briefings	92
P727	Monitor guns during training or aerial operations	90
P714	Fire guns during aerial operations	90
P716	Inspect night vision equipment	90
P718	Load and position aerial gun operation munitions onto aircraft	88
L528	Safe and clear gun systems	80
O678	Load or unload ammunition into or from trainable, fixed-, or pintle-mounted gun systems	72
L476	Arm gun systems	69
S845	Fire small arms	62
P737	Place 40mm or 105mm ammunition into ammunition storage	61

TABLE A5
MAINTENANCE DEBRIEF JOB
(STG569)

TASKS	PERCENT MEMBERS PERFORMING (N=50)
F168 Change CAMS workcenter event narratives	94
F165 Change CAMS errors noted during daily verification process	88
F171 Create aircraft or support equipment maintenance discrepancies in CAMS	84
F166 Change CAMS job standard narratives	82
F179 Perform CAMS inquiries for scheduled aircraft discrepancies	82
F167 Change CAMS work unit codes	78
F182 Perform CAMS inquiries to monitor delayed discrepancies prior to, during, or after scheduling maintenance	76
F181 Perform CAMS inquiries for uncompleted maintenance event listings	74
F169 Clear or close out completed aircraft maintenance discrepancies in CAMS	74
G192 Clean facilities	74
F164 Analyze core automated maintenance system (CAMS) data	72
F186 Schedule aircraft maintenance discrepancies in CAMS	70
F172 Defer aircraft maintenance discrepancies in CAMS	60
F191 Verify accuracy of daily inputs in CAMS	56
A14 Determine work priorities	50
B41 Direct development or maintenance of status boards, graphs, or charts	46
F170 Conduct CAMS training	44
F187 Start or stop CAMS job following events	42
E152 Maintain status boards, graphs, or charts	42
A4 Coordinate gun services support requirements with other sections	38
F180 Perform CAMS inquiries for training status	36
F188 Track CAMS job following events	36
G202 Perform foreign object damage (FOD) prevention walks	34
A3 Coordinate aircraft integrated systems checkouts with other sections	34

TABLE A6
SUPPORT JOB
(STG124)

TASKS		PERCENT MEMBERS PERFORMING (N-274)
G194	Inspect composite tool kits	92
G199	Maintain composite tool kits	92
G196	Issue or receive tools or test equipment	90
G192	Clean facilities	86
E140	Inventory supplies, equipment, or tools	79
G200	Maintain portable power tools	63
E137	Initiate or complete lost tool reports	63
G197	Locate part numbers from illustrated parts breakdowns	60
E142	Maintain bench stock parts or equipment levels	54
G198	Locate parts from quick reference lists	50
A14	Determine work priorities	45
G202	Perform foreign object damage (FOD) prevention walks	43
E143	Maintain DO4 daily document register or item surveillance lists	42
E153	Maintain test measurement and diagnostic equipment (TMDE) calibration schedules	42
E150	Maintain property custody authorization/custody receipt listings (CA/CRLs)	41
E159	Verify D-18 supply due-out listings	41
E154	Maintain TOs	38
F183	Perform CAMS interface with base supply systems	37
E160	Verify due in from maintenance (DIFM) document listings	37
C103	Prepare EPRs	37
C78	Conduct performance feedback worksheet (PFW) sessions	37
G208	Receive armament system components	36
B37	Counsel personnel on personal or military-related matters	35
G203	Perform operator maintenance or self-tests on armament systems testers	34

TABLE A7
WEAPONS EXPEDITER JOB
(STG649)

TASKS	PERCENT MEMBERS PERFORMING (N=15)
A7 Coordinate munitions deliveries with other organizations	100
B69 Supervise Aircraft Armament Systems Specialists (AFSC 2W151)	87
A14 Determine work priorities	87
A8 Coordinate munitions loading support requirements with other sections	80
A28 Plan work assignments	67
B71 Supervise Aircraft Armament Systems Technicians (AFSC 2W171)	67
A3 Coordinate aircraft integrated systems checkouts with other sections	67
A10 Coordinate weapons release support requirements with other sections	67
A4 Coordinate gun services support requirements with other sections	53
G202 Perform foreign object damage (FOD) prevention walks	47
C103 Prepare EPRs	47
B72 Supervise Apprentice Aircraft Armament Systems Specialists (AFSC 2W131)	40
C78 Conduct performance feedback worksheet (PFW) sessions	40
A1 Assign personnel to duty positions	33
B37 Counsel personnel on personal or military-related matters	33
A5 Coordinate maintenance of handling equipment with other sections	27
F169 Clear or close out completed aircraft maintenance discrepancies in CAMS	27

TABLE A8
QUALITY ASSURANCE JOB
(STG634)

TASKS		PERCENT MEMBERS PERFORMING (N=70)
G194	Inspect composite tool kits	100
C101	Perform quality verification inspections	96
C99	Investigate accidents or incidents	87
H226	Inspect electrical wiring or harnesses	83
C88	Evaluate personnel on qualification tasks	81
H243	Inspect pylons	80
H229	Inspect external missile launchers	80
C92	Evaluate suggestions	80
C81	Evaluate individuals for compliance with performance standards	77
G195	Inspect line replaceable units (LRUs) for proper installation	76
H228	Inspect external bomb or ejector rack mechanical systems	73
C96	Inspect aircraft loading areas	71
C93	Evaluate weapons system malfunction reports	71
F179	Perform CAMS inquiries for scheduled aircraft discrepancies	71
H227	Inspect external bomb or ejector rack electrical systems	70
C83	Evaluate inspection reports or procedures	69
C97	Inspect equipment storage facilities	67
B51	Direct quality assurance or quality control functions	64
C87	Evaluate maintenance or use of workspace, equipment, or supplies	64
G202	Perform foreign object damage (FOD) prevention walks	64
C90	Evaluate safety programs	61
B61	Implement quality control programs	56
F181	Perform CAMS inquiries for uncompleted maintenance event listings	56
G192	Clean facilities	56
H222	Inspect bomb or rocket dispensers	54
H244	Inspect weapons armament control system components	54
H241	Inspect pylon adapters	53
F182	Perform CAMS inquiries to monitor delayed discrepancies prior to, during, or after scheduling maintenance	51

TABLE A9
SUPERVISION CLUSTER
(STG197)

TASKS		PERCENT MEMBERS PERFORMING (N=838)
B37	Counsel personnel on personal or military-related matters	92
A14	Determine work priorities	88
C103	Prepare EPRs	83
C81	Evaluate individuals for compliance with performance standards	81
C78	Conduct performance feedback worksheet (PFW) sessions	81
A28	Plan work assignments	78
A21	Establish performance standards for subordinates	78
A1	Assign personnel to duty positions	76
B69	Supervise Aircraft Armament Systems Specialists (AFSC 2W151)	74
A32	Schedule leaves or passes	73
B71	Supervise Aircraft Armament Systems Technicians (AFSC 2W171)	72
C77	Analyze workload requirements	70
G194	Inspect composite tool kits	67
B67	Interpret policies, directives, or procedures for subordinates	65
A35	Select personnel for temporary duty (TDY) requirements	64
A18	Develop work methods or procedures	63
A11	Determine requirements for space, personnel, equipment, or supplies	62
B36	Conduct briefings, meetings, or conferences	62
C95	Indorse enlisted performance reports (EPRs)	62
C82	Evaluate individuals for promotion, demotion, or reclassification	60
C94	Evaluate work schedules	57
C87	Evaluate maintenance or use of workspace, equipment, or supplies	57
B76	Write correspondence	57
A2	Assign sponsors for newly assigned personnel	56
D130	Schedule personnel for training	55
C83	Evaluate inspection reports or procedures	55

TABLE A10

SAFETY JOB
(STG718)

TASKS		PERCENT MEMBERS PERFORMING (N=31)
C90	Evaluate safety programs	100
B62	Implement safety programs	100
C86	Evaluate local munitions hazards	97
C99	Investigate accidents or incidents	94
A25	Plan safety programs	90
B36	Conduct briefings, meetings, or conferences	87
B76	Write correspondence	81
C98	Inspect munitions assembly or maintenance areas	81
C96	Inspect aircraft loading areas	81
A29	Prepare briefing, meeting, or conference agendas	81
B68	Prepare explosives safety waivers	77
E156	Prepare inspection checklists	74
C97	Inspect equipment storage facilities	71
A9	Coordinate section safety programs with safety directors	65
C83	Evaluate inspection reports or procedures	65
E154	Maintain TOs	65
D113	Conduct training conferences or briefings	61
E151	Maintain standard Air Force publications, regulations, or manuals, other than TOs	52
E157	Type records, reports, or correspondence	48
E144	Maintain inspection checklists	48
C93	Evaluate weapons system malfunction reports	48
B67	Interpret policies, directives, or procures for subordinates	45
A20	Establish organizational policies, office instructions (OIs), or standing operating procedures (SOPs)	45
G192	Clean facilities	42
G194	Inspect composite tool kits	42
C81	Evaluate individuals for compliance with performance standards	39
C87	Evaluate maintenance or use of workspace, equipment, or supplies	39

TABLE A11
INSTRUCTOR JOB
(STG184)

TASKS	PERCENT MEMBERS PERFORMING (N=57)
D106 Administer tests	96
D131 Score tests	96
D133 Write test questions	88
D112 Conduct resident course classroom training	70
D116 Demonstrate how to locate technical information	70
D129 Procure training aids, space, or equipment	61
G192 Clean facilities	61
D115 Counsel trainees on training progress	54
D127 Maintain training records, charts, or graphs	53
D130 Schedule personnel for training	53
D125 Evaluate progress of resident course students	47
D126 Evaluate training methods or techniques	47
G194 Inspect composite tool kits	47
C81 Evaluate individuals for compliance with performance standards	44
B36 Conduct briefings, meetings, or conferences	44
D120 Develop resident course curriculum materials	39
B37 Counsel personnel on personal or military-related matters	37
G201 Perform aircraft safe for maintenance procedures	37
E140 Inventory supplies, equipment, or tools	37
D118 Determine resident course training requirements	35
F170 Conduct CAMS training	35
E154 Maintain TOs	33
D122 Direct or implement training programs, other than OJT	30
D113 Conduct training conferences or briefings	30

TABLE A12

MOBILITY JOB
(STG876)

TASKS	PERCENT MEMBERS PERFORMING (N=21)
S821 Coordinate mobility or contingency plans or requirements with participating units	100
S813 Conduct unit mobility self-inspections	100
S834 Develop unit mobility procedures for deployment of equipment or personnel	95
S829 Develop mobility or deployment checklists	95
S832 Develop or update mobility inspection checklists	90
S864 Participate in mobility deployment or redeployment planning meetings	86
S828 Determine personnel requirements for mobility or deployments	86
S827 Determine equipment requirements for mobility or deployments	86
S844 Evaluate mobility or deployment plan inputs	86
B47 Direct mobility exercises or operations	81
S854 Maintain contingency plans	81
S847 Input personnel tasking requirements for mobility or deployments	81
S843 Evaluate mobility or deployment after-action inputs	81
S812 Conduct mobility training	81
S842 Evaluate mobility inspection findings	81
S808 Assign members to mobility positions	76
S809 Complete mobility training reports	76
S805 Analyze feasibility of operations plan (OPLANs)	76
S857 Maintain readiness lists	71
S858 Maintain workcenter pyramid recall plans	71
A33 Select personnel for mobility teams	71
B76 Write correspondence	71
S885 Schedule personnel for mobility training	71
S836 Don or doff chemical warfare personal protective clothing	71
S891 Write mobility or deployment after-action report inputs	71
S810 Conduct mobility or deployment site surveys	71
S876 Prepare mobility plan inputs to base mobility plans	71
S849 Inspect mobility bags or kits	71

APPENDIX B
LISTING OF MODULES AND TASK STATEMENTS

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These Task Modules (TMs) were developed in order to organize and summarize the extensive task information for this specialty. The TMs were derived by statistical clustering of the tasks in terms of which tasks are performed by the same incumbents. For example, if an individual performs one Flightline Loading task, the probability is very high that he or she also will perform other documentation tasks. Thus, the group of Flightline Loading and Checkout tasks can be considered a "natural group" of associated or related tasks (see TM 0002 below). The statistical clustering generally approximates these "natural groupings."

The title of each TM is our best estimate as to the generic subject content of the group of tasks. The TMs are useful for organizing the task data into meaningful units and as a way to concisely summarize the extensive job data. However, TMs are only one way to organize the information. Other strategies may also be valid.

0001	ST0634	Entry Level Tasks
------	--------	-------------------

- | | | |
|---|------|--|
| 1 | G192 | Clean facilities |
| 2 | G194 | Inspect composite tool kits |
| 3 | G199 | Maintain composite tool kits |
| 4 | G201 | Perform aircraft safe for maintenance procedures |
| 5 | G202 | Perform foreign object damage (FOD) prevention walks |
| 6 | G203 | Perform operator maintenance or self-tests on armament systems testers |

0002	ST0622	Flightline Loading and Checkout
------	--------	---------------------------------

- | | | |
|----|------|--|
| 1 | I252 | Functionally or electrically check aircraft conventional bomb release systems |
| 2 | I254 | Functionally or electrically check bomb or ejector racks |
| 3 | I256 | Functionally or electrically check bomb release or ejector systems |
| 4 | I259 | Functionally or electrically check jettison or emergency release systems, such as armament or fuel pylon |
| 5 | I262 | Functionally or electrically check pylon systems |
| 6 | I268 | Operationally or mechanically check bomb or ejector racks |
| 7 | I296 | Perform stray voltage checks |
| 8 | J311 | Remove or install bomb or ejector racks |
| 9 | J313 | Remove or install chaff or flare dispensers |
| 10 | J319 | Remove or install missile launchers |
| 11 | J321 | Remove or install pylons or adapters |
| 12 | O665 | Arm or dearm aircraft armament systems, other than gun systems |
| 13 | O666 | Functionally or electrically check aircraft conventional armament circuits |
| 14 | O668 | Inspect argon bottles |
| 15 | O669 | Inspect chaff or flare ejector units or mods |
| 16 | O670 | Inspect conventional weapons or equivalent training items |
| 17 | O677 | Load or unload ammunition into or from internal gun systems |
| 18 | O679 | Load or unload chaff onto or from aircraft |
| 19 | O680 | Load or unload conventional munitions or equivalent training items onto or from aircraft |
| 20 | O682 | Load or unload flares onto or from aircraft |
| 21 | O691 | Perform end-of-runway (EOR) safing procedures |
| 22 | O692 | Perform ICTs |

0002	ST0622	Flightline Loading and Checkout (Continued)
23	O694	Perform munitions postload inspections
24	O698	Prepare for loading conventional munitions onto aircraft
25	O702	Preposition munitions prior to loading onto aircraft
26	O704	Remove or install argon bottles
27	O707	Remove or install impulse cartridges
0003	ST0611	Clean and Inspect Bomb/Ejector Racks
1	H210	Clean and lubricate bomb or rocket dispenser mechanical components
2	H213	Clean and lubricate external bomb or ejector rack mechanical components
3	H226	Inspect electrical wiring or harnesses
4	H227	Inspect external bomb or ejector rack electrical systems
5	H228	Inspect external bomb or ejector rack mechanical systems
6	H229	Inspect external missile launchers
7	H243	Inspect pylons
8	H249	Perform pin protrusion checks
0004	ST0612	Mechanical Checkout - Release Systems
1	I263	Functionally or electrically check rack systems
2	I266	Operationally or mechanically check aircraft conventional bomb release systems
3	I273	Operationally or mechanically check jettison or emergency release systems, such as armament or fuel pylon
4	I277	Operationally or mechanically check pylon systems
5	I278	Operationally or mechanically check rack systems
0005	ST0497	Rocket Dispenser Checkout
1	H222	Inspect bomb or rocket dispensers
2	I255	Functionally or electrically check bomb or rocket dispensers
3	I269	Operationally or mechanically check bomb or rocket dispensers
4	J312	Remove or install bomb or rocket dispensers
0006	ST0441	Munitions Checkout
1	O690	Operationally or mechanically check aircraft missile armament circuits
2	O693	Perform loading inspections of aircraft gun ammunition
3	O695	Perform munitions postload maintenance or procedures
4	O696	Perform munitions preload maintenance
0007	ST0486	Support Equipment Inspection
1	N606	Inspect air compressors prior-to-use
2	N607	Inspect air conditioners prior-to-use
3	N609	Inspect bomb lift trucks prior-to-use
4	N612	Inspect floodlight sets prior-to-use

0007	ST0486	Support Equipment Inspection (Continued)
5	N613	Inspect generator sets prior-to-use
6	N615	Inspect manually operated lift trucks (MOLTs) prior-to-use
7	N616	Inspect munitions handling trailers prior-to-use
0008	ST0502	Gun Operations Support
1	L476	Arm gun systems
2	L478	Clean and lubricate aircraft gun compartments, gun bays, or blast fairings
3	L480	Clean and lubricate internal gun systems
4	L482	Clear hot guns
5	L484	Clear malfunctioned or jammed internal gun systems
6	L487	Functionally or electrically check internal gun systems
7	L490	Inspect aircraft gun compartments, gun bays, or blast fairings
8	L507	Operationally or mechanically check internal gun systems
9	L513	Perform visual inspections of gun bay areas for FOD
10	L522	Remove or replace internal gun systems
11	L528	Safe and clear gun systems
0009	ST0520	Gun Systems Repair
1	L474	Adjust element tension or slack of internal gun systems
2	L497	Inspect internal gun system electrical components
3	L498	Inspect internal gun system mechanical components
4	L511	Perform gun system hydraulic checks
5	L517	Remove or replace ammunition chutes or demand boosters
6	L520	Remove or replace internal gun system electrical components
7	L521	Remove or replace internal gun system mechanical components
8	L532	Troubleshoot internal gun electrical systems
9	L533	Troubleshoot internal gun mechanical systems
0010	ST0297	Launcher Built-In-Tests
1	I274	Operationally or mechanically check launcher adapters
2	I275	Operationally or mechanically check missile launch and control systems
3	I283	Perform built-in-tests (BITs)
4	I290	Perform programmable armament control system (PACS) BITs
0011	ST0358	CUT - Flightline Duties
1	R773	Clean aircraft
2	R775	Launch or recover aircraft
3	R776	Marshal aircraft
4	R777	Operate auxiliary power units
5	R797	Stand engine-start fire guard

0012	ST0303	Component Supply
1	G195	Inspect line replaceable units (LRUs) for proper installation
2	G197	Locate part numbers from illustrated parts breakdowns
3	G198	Locate parts from quick reference lists
4	G204	Perform operator maintenance or self-tests on electronic test equipment
5	G207	Prepare armament system components for shipment
6	G208	Receive armament system components
7	G209	Remove or replace LRUs
0013	ST0335	Bomb Release/Rocket Dispenser Repair
1	J323	Remove or replace aircraft conventional bomb release system electrical components
2	J324	Remove or replace aircraft conventional bomb release system mechanical components
3	J327	Remove or replace aircraft-installed cannon plugs
4	J329	Remove or replace aircraft-installed relays
5	J330	Remove or replace aircraft-installed switches
6	J351	Remove or replace wiring harnesses or cables
7	J352	Repair defective aircraft-installed wiring or cables
8	J353	Replace defective aircraft-installed wiring or cables
9	J362	Troubleshoot bomb or rocket dispenser electrical systems
10	J363	Troubleshoot bomb or rocket dispenser mechanical systems
11	J367	Troubleshoot conventional bomb release electrical systems
12	J368	Troubleshoot conventional bomb release mechanical systems
13	J373	Troubleshoot jettison or emergency release electrical systems
14	J374	Troubleshoot jettison or emergency release mechanical systems
15	J376	Troubleshoot missile launch and control electrical systems
0014	ST0313	Launch and Control Repair
1	J337	Remove or replace jettison or emergency release system electrical components
2	J338	Remove or replace jettison or emergency release system mechanical components
3	J339	Remove or replace missile launch and control system electrical components
4	J341	Remove or replace missile launch and control system mechanical components
5	J375	Troubleshoot missile cooling systems
6	J378	Troubleshoot missile launch and control mechanical systems
0015	ST0326	Mobility - Chemical Warfare Prep
1	S836	Don or doff chemical warfare personal protective clothing
2	S845	Fire small arms
3	S846	Identify unexploded ordnances (UXOs)
4	S872	Perform or practice chemical warfare agent detection
5	S873	Perform or practice decontamination procedures for chemical warfare agents
6	S874	Perform or practice self-aid and buddy care techniques
7	S877	Prepare personal effects for deployments

0015	ST0326	Mobility - Chemical Warfare Prep (Continued)
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| 8 | S879 | Preprocess for mobility status |
| 9 | S880 | Process for mobility deployments |
| 10 | S881 | Reconfigure aircraft from mobility to normal status |
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0016	ST0285	Munitions Tracking
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|---|------|--|
| 1 | Q752 | Inspect received munitions lots for serviceability |
| 2 | Q753 | Inventory conventional weapons or equivalent training items, such as bomb dummy units (BDUs) or impulse cartridges |
| 3 | Q764 | Record ammunition or munitions expenditures, such as chaff, flares, or spent rounds |
| 4 | Q771 | Verify munitions received match mission requirements |
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0017	ST0571	In-Shop Ejector Rack/Launcher Repair
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|----|------|---|
| 1 | K390 | Assemble or disassemble bomb or ejector racks |
| 2 | K400 | Assemble or disassemble missile launchers |
| 3 | K403 | Assemble or disassemble pylons |
| 4 | K405 | Bench check armament system cable assemblies |
| 5 | K406 | Bench check armament system electrical components |
| 6 | K409 | Bench check bomb or ejector racks |
| 7 | K421 | Bench check missile launchers |
| 8 | K424 | Bench check pylons |
| 9 | K427 | Clean and corrosion-treat weapons release components |
| 10 | K430 | Overhaul bomb or ejector racks |
| 11 | K431 | Perform in-shop modifications of suspension, launch, and release system components or support equipment |
| 12 | K436 | Remove or install bomb or ejector racks from or onto pylons |
| 13 | K442 | Repair bomb or ejector racks |
| 14 | K448 | Repair missile launchers |
| 15 | K452 | Repair pylons |
| 16 | K459 | Troubleshoot bomb or ejector rack electrical components |
| 17 | K460 | Troubleshoot bomb or ejector rack mechanical components |
| 18 | K471 | Troubleshoot pylon electrical components |
| 19 | K472 | Troubleshoot pylon mechanical components |
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0018	ST0584	Launcher Adapter Repair
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|---|------|---|
| 1 | K397 | Assemble or disassemble launcher adapters |
| 2 | K418 | Bench check launcher adapters |
| 3 | K447 | Repair launcher adapters |
| 4 | K463 | Troubleshoot launcher adapter electrical components |
| 5 | K464 | Troubleshoot launcher adapter mechanical components |

0019	ST0469	Maintain Rocket Dispensers
1	K391	Assemble or disassemble bomb or rocket dispensers
2	K410	Bench check bomb or rocket dispensers
3	K443	Repair bomb or rocket dispensers
4	K456	Troubleshoot alternate mission equipment cable assemblies or wiring
0020	ST0511	In-Shop Gun Support
1	M539	Assemble or disassemble internal gun systems
2	M542	Bench check internal gun system components
3	M545	Clean or corrosion-treat gun system components
4	M551	Isolate mechanical malfunctions in jammed internal gun systems
5	M554	Overhaul internal gun systems
6	M562	Perform in-shop inspections of internal gun systems
7	M565	Perform in-shop modifications on internal gun systems
8	M568	Perform in-shop test loading of internal gun systems
9	M572	Perform 20mm gun system periodic inspections
10	M573	Perform 20mm gun system time changes
11	M584	Repair ammunition chutes
12	M586	Repair internal gun systems
13	N592	Assemble or disassemble ammunition loading systems
14	N594	Assemble or disassemble universal ammunition loading systems (UALSs)
15	N598	Clean and lubricate ammunition loading systems
16	N600	Clean and lubricate UALSs
17	N641	Remove or replace UALS components
18	N656	Troubleshoot UALS
0021	ST0288	Armament System Relay Repair
1	K408	Bench check armament system relay panels
2	K419	Bench check LRUs
3	K458	Troubleshoot armament system relay panels
4	K465	Troubleshoot LRUs
0022	ST0399	Pylon Adapter Repair
1	K402	Assemble or disassemble pylon adapters
2	K423	Bench check pylon adapters
3	K451	Repair pylon adapters
4	K469	Troubleshoot pylon adapter electrical components
5	K470	Troubleshoot pylon adapter mechanical components

0023	ST0311	Nuclear Weapons Control System Support
1	I253	Functionally or electrically check aircraft nuclear weapons monitor, control, and release systems
2	I267	Operationally or mechanically check aircraft nuclear weapons monitor, control, and release systems
3	J325	Remove or replace aircraft nuclear weapons monitor, control, and release system electrical components
4	J326	Remove or replace aircraft nuclear weapons release system mechanical components
5	J360	Troubleshoot aircraft nuclear weapons monitor, control, and release electrical systems
6	J361	Troubleshoot aircraft nuclear weapons release mechanical systems
7	O667	Functionally or electrically check aircraft nuclear armament circuits
8	O672	Inspect nuclear weapons or equivalent training items
9	O683	Load or unload nuclear weapons or equivalent training items onto or from aircraft
10	O700	Prepare for loading nuclear weapons or equivalent training items onto aircraft
0024	ST0323	Weapons Interface Testing
1	I265	Load mission or operational memory tapes
2	I289	Perform missile interface tests (MITs)
3	I297	Perform system interface tests (SITs)
4	O688	Load or unload preloaded nuclear munitions or equivalent training items onto or from aircraft
5	Q768	Transport nuclear training items
0025	ST0312	Cluster Bomb Checkout
1	H223	Inspect bomb shackles
2	H235	Inspect mechanical bomb release riggings
3	I258	Functionally or electrically check cluster bomb racks
4	I272	Operationally or mechanically check cluster bomb racks
0026	ST0387	Bomb Rack Replace
1	H225	Inspect clip-in assembly racks
2	I271	Operationally or mechanically check clip-in weapons systems
3	I285	Perform critical circuit maintenance checks (CCMCs)
4	J314	Remove or install clip-in assembly racks
5	J315	Remove or install cluster bomb racks or guide plates
6	J316	Remove or install conventional cluster rack pads
7	J317	Remove or install heavy stores adapter beams
0027	ST0346	Weapons Bay Door Maintenance
1	H221	Clean and lubricate weapons bay door mechanical system components
2	H245	Inspect weapons bay door electrical systems
3	H246	Inspect weapons bay door hydraulic components
4	H247	Inspect weapons bay door mechanical systems

0027	ST0346	Weapons Bay Door Maintenance (Continued)
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| 5 | H251 | Service weapons bay door actuators |
| 6 | I264 | Functionally or electrically check weapons bay door systems |
| 7 | I282 | Operationally or mechanically check weapons bay door systems |
| 8 | I301 | Perform weapons bay door clearance checks |
| 9 | J347 | Remove or replace weapons bay door electrical system components |
| 10 | J348 | Remove or replace weapons bay door hydraulic system components |
| 11 | J349 | Remove or replace weapons bay door mechanical system components |
| 12 | J350 | Remove or replace weapons bay doors |
| 13 | J359 | Rig weapons bay doors |
| 14 | J386 | Troubleshoot weapons bay door electrical systems |
| 15 | J387 | Troubleshoot weapons bay door hydraulic systems |
| 16 | J388 | Troubleshoot weapons bay door mechanical systems |
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0028	ST0413	Shift Supervision
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|----|------|---|
| 1 | A14 | Determine work priorities |
| 2 | A18 | Develop work methods or procedures |
| 3 | A21 | Establish performance standards for subordinates |
| 4 | A28 | Plan work assignments |
| 5 | B37 | Counsel personnel on personal or military-related matters |
| 6 | B67 | Interpret policies, directives, or procures for subordinates |
| 7 | B69 | Supervise Aircraft Armament Systems Specialists (AFSC 46250) |
| 8 | B71 | Supervise Aircraft Armament Systems Technicians (AFSC 46270) |
| 9 | B72 | Supervise Apprentice Aircraft Armament Systems Specialists (AFSC 46230) |
| 10 | C78 | Conduct performance feedback worksheet (PFW) sessions |
| 11 | C81 | Evaluate individuals for compliance with performance standards |
| 12 | C103 | Prepare EPRs |
| 13 | D111 | Conduct OJT |
| 14 | D115 | Counsel trainees on training progress |
| 15 | D116 | Demonstrate how to locate technical information |
| 16 | D127 | Maintain training records, charts, or graphs |
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0029	ST0463	Maintenance Coordination
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| 1 | A3 | Coordinate aircraft integrated systems checkouts with other sections |
| 2 | A4 | Coordinate gun services support requirements with other sections |
| 3 | A5 | Coordinate maintenance of handling equipment with other sections |
| 4 | A7 | Coordinate munitions deliveries with other organizations |
| 5 | A8 | Coordinate munitions loading support requirements with other sections |
| 6 | A10 | Coordinate weapons release support requirements with other sections |
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0030	ST0446	CAMS Support
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| 1 | F164 | Analyze core automated maintenance system (CAMS) data |
| 2 | F165 | Change CAMS errors noted during daily verification process |
| 3 | F166 | Change CAMS job standard narratives |

0030	ST0446	CAMS Support (Continued)
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| 4 | F167 | Change CAMS work unit codes |
| 5 | F168 | Change CAMS workcenter event narratives |
| 6 | F169 | Clear or close out completed aircraft maintenance discrepancies in CAMS |
| 7 | F170 | Conduct CAMS training |
| 8 | F171 | Create aircraft or support equipment maintenance discrepancies in CAMS |
| 9 | F172 | Defer aircraft maintenance discrepancies in CAMS |
| 10 | F179 | Perform CAMS inquiries for scheduled aircraft discrepancies |
| 11 | F181 | Perform CAMS inquiries for uncompleted maintenance event listings |
| 12 | F182 | Perform CAMS inquiries to monitor delayed discrepancies prior to, during, or after scheduling maintenance |
| 13 | F186 | Schedule aircraft maintenance discrepancies in CAMS |

0031	ST0377	Maintenance Management
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| 1 | A1 | Assign personnel to duty positions |
| 2 | A2 | Assign sponsors for newly assigned personnel |
| 3 | A11 | Determine requirements for space, personnel, equipment, or supplies |
| 4 | A15 | Develop evaluation programs |
| 5 | A20 | Establish organizational policies, office instructions (OIs), or standing operating procedures (SOPs) |
| 6 | A29 | Prepare briefing, meeting, or conference agendas |
| 7 | A30 | Prepare job descriptions |
| 8 | A32 | Schedule leaves or passes |
| 9 | A35 | Select personnel for temporary duty (TDY) requirements |
| 10 | B36 | Conduct briefings, meetings, or conferences |
| 11 | B76 | Write correspondence |
| 12 | C77 | Analyze workload requirements |
| 13 | C82 | Evaluate individuals for promotion, demotion, or reclassification |
| 14 | C83 | Evaluate inspection reports or procedures |
| 15 | C84 | Evaluate job descriptions |
| 16 | C87 | Evaluate maintenance or use of workspace, equipment, or supplies |
| 17 | C94 | Evaluate work schedules |
| 18 | C95 | Indorse enlisted performance reports (EPRs) |

0032	ST0646	Safety Programs
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|---|-----|--|
| 1 | A9 | Coordinate section safety programs with safety directors |
| 2 | A25 | Plan safety programs |
| 3 | B62 | Implement safety programs |
| 4 | C90 | Evaluate safety programs |

0033	ST0293	Organization Planning
1	A13	Determine unit procedures for support of special missions, mobility exercises, training exercises, or war plans
2	A16	Develop initial plans for special missions, mobility exercises, training exercises, or war plans
3	A17	Develop organizational charts
4	A19	Draft budget or financial requirements
5	A24	Plan layouts of facilities
0034	ST0508	On the Job Training
1	D107	Assign on-the-job training (OJT) trainers
2	D117	Determine OJT requirements
3	D121	Direct or implement OJT programs
4	D128	Plan OJT
0035	ST0402	Personnel Evaluation
1	B64	Implement standardization or evaluation programs
2	C85	Evaluate load crews
3	C88	Evaluate personnel on qualification tasks
4	D109	Conduct load crew initial certification training
0036	ST0330	Direct Functions
1	B39	Direct alternate mission equipment functions
2	B40	Direct armament system shop functions
3	B42	Direct equipment maintenance functions
4	B43	Direct gun services functions
0037	ST0289	Training and Testing
1	D106	Administer tests
2	D113	Conduct training conferences or briefings
3	D122	Direct or implement training programs, other than OJT
4	D126	Evaluate training methods or techniques
5	D129	Procure training aids, space, or equipment
6	D131	Score tests
7	D133	Write test questions
0038	ST0395	Resident Training
1	D112	Conduct resident course classroom training
2	D118	Determine resident course training requirements
3	D120	Develop resident course curriculum materials
4	D125	Evaluate progress of resident course students

0039	ST0299	Supply Functions
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| 1 | E135 | Annotate M-30 backorder listings |
| 2 | E142 | Maintain benchstock parts or equipment levels |
| 3 | E143 | Maintain DO4 daily document register or item surveillance lists |
| 4 | E150 | Maintain property custody authorization/custody receipt listings (CA/CRLs) |
| 5 | E153 | Maintain test measurement and diagnostic equipment (TMDE) calibration schedules |
| 6 | E159 | Verify D-18 supply due-out listings |
| 7 | E160 | Verify due in from maintenance (DIFM) document listings |
| 8 | E161 | Verify M-36 obligated due-out listings |
| 9 | E162 | Verify mission impaired capability awaiting parts (MICAP) |
| 10 | E163 | Verify priority monitor reports |
| 11 | F183 | Perform CAMS interface with base supply systems |

0040	ST0350	Flightline Launcher Support
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|---|------|--|
| 1 | H215 | Clean and lubricate external rocket launcher mechanical components |
| 2 | H230 | Inspect external rocket launchers |
| 3 | J322 | Remove or install rocket launchers |
| 4 | N623 | Inspect 30mm ammunition loaders |
| 5 | O689 | Load or unload rockets into or from launchers |

0041	ST0325	30mm Gun Support
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|---|------|---|
| 1 | K404 | Assemble or disassemble rocket launchers |
| 2 | K426 | Bench check rocket launchers |
| 3 | K453 | Repair rocket launchers |
| 4 | M574 | Perform 30mm gun system periodic inspections |
| 5 | M575 | Perform 30mm gun system time changes |
| 6 | N644 | Remove or replace 30mm ammunition loader components |
| 7 | N658 | Troubleshoot 30mm ammunition loaders |

0042	ST0608	Bomb Release Rigging
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| 1 | J355 | Rig bomb rack manual lock systems |
| 2 | J356 | Rig forward and aft emergency releases |
| 3 | J357 | Rig mechanical bomb release systems |
| 4 | J358 | Rig pylon wing adapters |

0043	ST0587	Bomb Shackle Repair
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|---|------|---|
| 1 | K392 | Assemble or disassemble bomb shackles |
| 2 | K412 | Bench check bomb shackles |
| 3 | K444 | Repair bomb shackles |
| 4 | K461 | Troubleshoot bomb shackle mechanical components |

0044	ST0357	In-Shop Bomb Rack Repair
1	K394	Assemble or disassemble clip-in assembly racks
2	K395	Assemble or disassemble cluster bomb racks
3	K398	Assemble or disassemble MER adapter beams
4	K414	Bench check clip-in assembly racks
5	K415	Bench check cluster bomb racks
6	K420	Bench check MER adapter beams
7	K425	Bench check release units, such as A-5 or A-6
8	K435	Remove or install bomb or ejector racks from or onto MER or heavy stores adapter beams
9	K440	Remove or replace release units, such as A-5 or A-6
10	K446	Repair clip-in assembly racks
11	K450	Repair pylon adapter beams
12	K455	Rig clip-in assembly racks
0045	ST0628	Practice bomb Adapter Rack Repair
1	K401	Assemble or disassemble PBARs
2	K416	Bench check conventional bomb modules
3	K422	Bench check PBARs
4	K449	Repair PBARs
5	K467	Troubleshoot PBAR electrical components
6	K468	Troubleshoot PBAR mechanical components
0046	ST0433	Chaff/Flare Dispenser Checkout
1	J365	Troubleshoot chaff or flare dispenser electrical systems
2	J366	Troubleshoot chaff or flare dispenser mechanical systems
3	J371	Troubleshoot flare dispensing electrical systems
4	J372	Troubleshoot flare dispensing mechanical systems
0047	ST0359	Mobility Team Construction
1	A33	Select personnel for mobility teams
2	S808	Assign members to mobility positions
3	S827	Determine equipment requirements for mobility or deployments
4	S828	Determine personnel requirements for mobility or deployments
5	S858	Maintain workcenter pyramid recall plans
6	S864	Participate in mobility deployment or redeployment planning meetings
7	S884	Schedule personnel for mobility exercises or deployments
8	S885	Schedule personnel for mobility training

0048	ST0425	Mobility Deployment Planning
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|---|------|---|
| 1 | S829 | Develop mobility or deployment checklists |
| 2 | S830 | Develop mobility or deployment shop policies |
| 3 | S832 | Develop or update mobility inspection checklists |
| 4 | S834 | Develop unit mobility procedures for deployment of equipment or personnel |
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0049	ST0317	Mobility Coordination and Feasibility
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|----|------|---|
| 1 | S803 | Analyze feasibility of contingency plan (CONPLAN) annexes |
| 2 | S804 | Analyze feasibility of operations order (OPORD) annexes |
| 3 | S805 | Analyze feasibility of operations plan (OPLANs) |
| 4 | S806 | Analyze timed-phased force and development lists (TPFDLs) for feasibility |
| 5 | S810 | Conduct mobility or deployment site surveys |
| 6 | S811 | Conduct mobility surveillance visits |
| 7 | S820 | Coordinate mobility or contingency plans or requirements with higher headquarters |
| 8 | S821 | Coordinate mobility or contingency plans or requirements with participating units |
| 9 | S822 | Coordinate modes of transporting deploying units or equipment with appropriate agencies |
| 10 | S825 | Coordinate wartime movement plans with appropriate agencies |
| 11 | S854 | Maintain contingency plans |
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0050	ST0382	Mobility Report Findings
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|---|------|---|
| 1 | S809 | Complete mobility training reports |
| 2 | S842 | Evaluate mobility inspection findings |
| 3 | S843 | Evaluate mobility or deployment after-action inputs |
| 4 | S844 | Evaluate mobility or deployment plan inputs |
| 5 | S889 | Write mobility critical equipment reports |
| 6 | S890 | Write mobility inspection report inputs |
| 7 | S891 | Write mobility or deployment after-action report inputs |
| 8 | S892 | Write mobility personnel reports |
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0051	ST0316	Blast Deflector Maintenance
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|---|------|---|
| 1 | L473 | Adjust blast deflector or purge doors |
| 2 | L492 | Inspect blast deflectors or purge doors |
| 3 | L509 | Perform flightline modifications of internal gun systems |
| 4 | L518 | Remove or replace blast deflector or purge door mechanical components |
| 5 | L519 | Remove or replace blast deflector or purge doors |
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0052	ST0420	Train, Fix, or Pintle-Mounted Gun Maint
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| 1 | L481 | Clean and lubricate trainable, fixed-, or pintle-mounted gun systems |
| 2 | L485 | Clear malfunctioned or jammed trainable, fixed-, or pintle-mounted gun systems |
| 3 | L488 | Functionally or electrically check trainable, fixed-, or pintle-mounted gun systems |
| 4 | L500 | Inspect trainable, fixed-, or pintle-mounted gun system electrical components |
| 5 | L501 | Inspect trainable, fixed-, or pintle-mounted gun system mechanical components |
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0052	ST0420	Train, Fix, or Pintle-Mounted Gun Maint (Continued)
6	L508	Operationally or mechanically check trainable, fixed-, or pintle-mounted gun systems
7	L510	Perform flightline modifications of trainable, fixed-, or pintle-mounted gun systems
8	L516	Remove or install trainable, fixed-, or pintle-mounted gun systems
9	L526	Remove or replace trainable, fixed-, or pintle-mounted gun system electrical components
10	L527	Remove or replace trainable, fixed-, or pintle-mounted gun system mechanical components
11	L535	Troubleshoot trainable, fixed-, or pintle-mounted gun electrical systems
12	L536	Troubleshoot trainable, fixed-, or pintle-mounted gun mechanical systems
13	M540	Assemble or disassemble trainable, fixed-, or pintle-mounted gun systems
14	M544	Bench check trainable, fixed-, or pintle-mounted gun electrical systems
15	M552	Isolate mechanical malfunctions in jammed trainable, fixed-, or pintle-mounted gun systems
16	M555	Overhaul trainable, fixed-, or pintle-mounted gun systems
17	M563	Perform in-shop inspections of trainable, fixed-, or pintle-mounted gun systems
18	M566	Perform in-shop modifications on trainable, fixed-, or pintle-mounted gun systems
19	M569	Perform in-shop test loading of trainable, fixed-, or pintle-mounted gun systems
20	M587	Repair trainable, fixed-, or pintle-mounted gun systems
0053	ST0343	105mm Recoil System Service
1	L502	Inspect 105mm gun blast suppressors
2	L525	Remove or replace trainable or fixed-mounted gun system hydraulic components
3	L529	Service recoil cylinders or adapters
4	L534	Troubleshoot trainable or fixed-mounted gun hydraulic systems
0054	ST0310	50 Cal/7.62mm Gun Maintenance
1	L524	Remove or replace saddle assemblies
2	M556	Perform .50-caliber gun system periodic inspections
3	M557	Perform .50-caliber gun system time changes
4	M578	Perform 7.62mm gun system periodic inspections
5	M579	Perform 7.62mm gun system time changes
6	M583	Remove or replace 7.62mm or .50-caliber ammunition storage canister components
7	N593	Assemble or disassemble delinkers or loading assemblies
8	N599	Clean and lubricate delinkers or loading assemblies
9	N620	Inspect .50-caliber ammunition loaders
10	N625	Inspect 7.62mm ammunition loaders
11	O708	Remove or install rescue hoist cartridges
0055	ST0328	20/40/105mm Gun Systems Support
1	L503	Inspect 20mm gun pull-over gauges
2	L504	Inspect 40mm gun pull-over gauges
3	M546	Clean 105mm recoil cylinders
4	M549	Inspect 105mm recoil cylinders

0055	ST0328	20/40/105mm Gun Systems Support (Continued)
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5	M570	Perform 105mm gun system periodic inspections
6	M571	Perform 105mm gun system time changes
7	M576	Perform 40mm gun system periodic inspections
8	M577	Perform 40mm gun system time changes
9	M588	Repair 105mm recoil cylinders
10	M589	Repair 40mm recoil cylinders
11	M590	Troubleshoot 105mm recoil cylinders
12	M591	Troubleshoot 40mm recoil cylinders
13	N624	Inspect 40mm ammunition loaders
14	N645	Remove or replace 40mm ammunition loader components
15	N659	Troubleshoot 40mm ammunition loaders
16	N660	Troubleshoot 40mm recoil cylinders

0056	ST0801	Support Aerial Gunnery Training
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1	P712	Detect and clear gun malfunctions during training or aerial operations
2	P714	Fire guns during aerial operations
3	P716	Inspect night vision equipment
4	P718	Load ammunition into containers
5	P719	Load and position aerial gun operation munitions onto aircraft
6	P721	Load guns during training or aerial operations
7	P727	Monitor guns during training or aerial operations
8	P728	Operate night vision equipment
9	P729	Participate in aerial gun operation predeparture briefings
10	P731	Perform aircraft scanning functions
11	P735	Perform preflight inspections of life support equipment
12	P738	Postflight aircraft after aerial gun operations
13	P739	Preflight aircraft for aerial gun operations
14	P742	Troubleshoot guns during training or aerial operations
15	P743	Unload aerial gun operation munitions from aircraft

0057	ST0651	Accompany Aerial Operations
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1	P710	Call fire for ground suppression
2	P711	Configure aircraft for alternate loading and infiltration or exfiltration operations
3	P715	Hand launch pyrotechnics
4	P717	Light landing zones
5	P722	Locate, mark, and analyze enemy positions
6	P730	Perform air refueling operations
7	P732	Perform bombing or gunnery range clearances
8	P734	Perform low-level navigation
9	P736	Perform rescue recovery operations
10	P740	Transport cargo or equipment into or out of landing zones
11	P741	Transport personnel into or out of landing zones

0058	ST0507	Maintain Small Arms
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|---|------|----------------------------------|
| 1 | P723 | Maintain M-16 carbines |
| 2 | P724 | Maintain M-179 grenade launchers |
| 3 | P725 | Maintain M-870 shotguns |
| 4 | P726 | Maintain 9mm pistols |
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0059	ST0341	Flightline Gun Pod Checkout
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|---|------|--|
| 1 | L494 | Inspect gun pod electrical system components |
| 2 | L495 | Inspect gun pod mechanical system components |
| 3 | L530 | Troubleshoot gun pod electrical systems |
| 4 | L531 | Troubleshoot gun pod mechanical systems |
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0060	ST0329	In-Shop Gun Pod Checkout
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|---|------|---|
| 1 | M538 | Assemble or disassemble gun pods |
| 2 | M541 | Bench check gun pod system components |
| 3 | M558 | Perform in-shop ammunition unloading of gun pod systems |
| 4 | M561 | Perform in-shop inspections of gun pod systems |
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0061	ST0388	In-Shop Gun Pod Repair
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|---|------|--|
| 1 | M553 | Overhaul gun pods |
| 2 | M564 | Perform in-shop modifications on gun pod systems |
| 3 | M567 | Perform in-shop test loading of gun pod systems |
| 4 | M585 | Repair gun pods |
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0062	ST0522	Munitions Handling Trailer Repair
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|----|------|--|
| 1 | N631 | Rebuild munitions handling trailer hydraulic systems or components |
| 2 | N632 | Rebuild munitions handling trailer pneumatic systems or components |
| 3 | N634 | Remove or replace munitions handling trailer electrical components |
| 4 | N635 | Remove or replace munitions handling trailer hydraulic components |
| 5 | N636 | Remove or replace munitions handling trailer mechanical components |
| 6 | N637 | Remove or replace munitions handling trailer pneumatic components |
| 7 | N648 | Service munitions handling trailers |
| 8 | N649 | Service munitions lift trailers |
| 9 | N651 | Troubleshoot munitions handling trailer electrical systems |
| 10 | N652 | Troubleshoot munitions handling trailer hydraulic systems |
| 11 | N653 | Troubleshoot munitions handling trailer mechanical systems |
| 12 | N654 | Troubleshoot munitions handling trailer pneumatic systems |
| 13 | N662 | Weight-check munitions handling trailers |
| 14 | N663 | Weight-check munitions lift trailers |
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0063	ST0321	CUT - Service Aircraft
1	R786	Remove or replace aircraft brake assemblies
2	R787	Remove or replace aircraft engines
3	R791	Remove or replace aircraft wheel assemblies
4	R794	Service aircraft shock struts
5	R795	Service aircraft tires
0064	ST0064	Tasks not referenced
1	A6	Coordinate munitions convoys with other organizations
2	A12	Determine security classifications of official information
3	A22	Establish publication libraries
4	A23	Plan integrated combat turns (ICTs)
5	A26	Plan security programs
6	A27	Plan technical order (TO) modification compliances
7	A31	Prepare unit emergency or disaster preparedness plans
8	A34	Select personnel for special duty assignments
9	B38	Direct aircraft maintenance branch or unit functions
10	B41	Direct development or maintenance of status boards, graphs, or charts
11	B44	Direct ICTs
12	B45	Direct maintenance of administrative files
13	B46	Direct maintenance of technical data files
14	B47	Direct mobility exercises or operations
15	B48	Direct munitions or maintenance control functions
16	B49	Direct munitions production functions
17	B50	Direct munitions services functions
18	B51	Direct quality assurance or quality control functions
19	B52	Direct storage of conventional munitions
20	B53	Direct storage of nuclear weapons or equivalent training items
21	B54	Direct trailer maintenance functions
22	B55	Direct transportation of conventional munitions
23	B56	Direct transportation of nuclear weapons or equivalent training items
24	B57	Implement corrosion control programs
25	B58	Implement cost-reduction programs
26	B59	Implement ICTs
27	B60	Implement nuclear surety programs
28	B61	Implement quality control programs
29	B63	Implement security programs
30	B65	Implement suggestion programs
31	B66	Initiate personnel action requests
32	B68	Prepare explosives safety waivers
33	B70	Supervise Aircraft Armament Systems Superintendents (AFSC 46290)
34	B73	Supervise civilian personnel, other than foreign nationals
35	B74	Supervise foreign national personnel
36	B75	Supervise USAF personnel with AFSCs other than 462X0
37	C79	Evaluate aircraft integrated systems checkout personnel
38	C80	Evaluate contamination of areas

0064	ST0064	Tasks not referenced (Continued)
39	C86	Evaluate local munitions hazards
40	C89	Evaluate procedures for storage, inventory, or inspection of property items
41	C91	Evaluate security programs
42	C92	Evaluate suggestions
43	C93	Evaluate weapons system malfunction reports
44	C96	Inspect aircraft loading areas
45	C97	Inspect equipment storage facilities
46	C98	Inspect munitions assembly or maintenance areas
47	C99	Investigate accidents or incidents
48	C100	Monitor personnel for medical or mental fitness
49	C101	Perform quality verification inspections
50	C102	Prepare disciplinary action reports
51	C104	Write civilian performance ratings or supervisory appraisals
52	C105	Write staff studies or surveys
53	D108	Assign resident course instructors
54	D110	Conduct nonresident course classroom training
55	D114	Coordinate specialized training with allied forces
56	D119	Develop career development course (CDC) materials
57	D123	Establish study reference files
58	D124	Evaluate progress of CDC students
59	D130	Schedule personnel for training
60	D132	Select individuals for specialized training
61	D134	Write training reports
62	E136	Initiate materiel deficiency reports (MDRs)
63	E137	Initiate or complete lost tool reports
64	E138	Initiate quality deficiency reports (QDRs)
65	E139	Initiate service reports (SRs)
66	E140	Inventory supplies, equipment, or tools
67	E141	Maintain automated technical order management systems (ATOMS)
68	E144	Maintain inspection checklists
69	E145	Maintain M-03 organizational cost center listings
70	E146	Maintain maintenance management information and control system (MMICS) workcenter listings
71	E147	Maintain manpower authorization documents
72	E148	Maintain master identification (ID) listings
73	E149	Maintain preventive maintenance inspection (PMI) worksheets
74	E151	Maintain standard Air Force publications, regulations, or manuals, other than TOs
75	E152	Maintain status boards, graphs, or charts
76	E154	Maintain TOs
77	E155	Maintain vehicle control logs
78	E156	Prepare inspection checklists
79	E157	Type records, reports, or correspondence
80	E158	Verify D-11 update and reconciliation listings
81	F173	Determine CAMS training requirements
82	F174	Download CAMS disk files
83	F175	Download CAMS for end-of-day processing

0064	ST0064	Tasks not referenced (Continued)
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84	F176	Format and prepare computers to accept CAMS program software
85	F177	Implement CAMS workcenter training programs
86	F178	Input D22 supply data in CAMS
87	F180	Perform CAMS inquiries for training status
88	F184	Plan or schedule CAMS training
89	F185	Recover CAMS from systems malfunctions
90	F187	Start or stop CAMS job following events
91	F188	Track CAMS job following events
92	F189	Update CAMS with system releases or updates
93	F190	Update computer hardware to accept CAMS program software
94	F191	Verify accuracy of daily inputs in CAMS
95	G193	Debrief aircrew members
96	G196	Issue or receive tools or test equipment
97	G200	Maintain portable power tools
98	G205	Prepare aircraft for mobility deployments
99	G206	Prepare aircraft or equipment documentation for mobility deployments
100	H211	Clean and lubricate chaff or flare dispenser mechanical components
101	H212	Clean and lubricate clip-in assembly racks
102	H214	Clean and lubricate external missile launcher mechanical components
103	H216	Clean and lubricate internal bomb or ejector rack mechanical components
104	H217	Clean and lubricate internal missile launch system mechanical components
105	H218	Clean and lubricate internal rocket launcher mechanical components
106	H219	Clean and lubricate pylon fuel components
107	H220	Clean and lubricate pylon mechanical components
108	H224	Inspect chaff or flare dispensers
109	H231	Inspect internal bomb or ejector racks
110	H232	Inspect internal missile ejector racks.
111	H233	Inspect internal missile launchers
112	H234	Inspect internal rocket launchers
113	H236	Inspect missile cooling systems
114	H237	Inspect missile launch system hydraulic components
115	H238	Inspect missile launch system pneumatic components
116	H239	Inspect nuclear training devices, such as drop shapes, MK-106s, or simulator plugs
117	H240	Inspect photoflash dispensing units
118	H241	Inspect pylon adapters
119	H242	Inspect pylon beam rack assemblies
120	H244	Inspect weapons armament control system components
121	H248	Inspect weapons monitor and control system components
122	H250	Perform pre- or postflight exterior skin panel or cover inspections
123	I257	Functionally or electrically check chaff or flare dispensers
124	I260	Functionally or electrically check missile launch and control systems
125	I261	Functionally or electrically check practice bomb adapter racks (PBARs)
126	I270	Operationally or mechanically check chaff or flare dispensers
127	I276	Operationally or mechanically check PBARs
128	I279	Operationally or mechanically check release pulse indicators
129	I280	Operationally or mechanically check rocket firing systems

0064	ST0064	Tasks not referenced (Continued)
130	I281	Operationally or mechanically check salvo systems
131	I284	Perform control and display panel (CDP) checks
132	I286	Perform ground readiness testing
133	I287	Perform integrated systems checks (ISCs)
134	I288	Perform intermix checks
135	I291	Perform pylon adapter test checks
136	I292	Perform pylon simulator plug shorting checks
137	I293	Perform rocket harness checks
138	I294	Perform simulator (SIM) plug checks
139	I295	Perform stores management system (SMS) confidence checks
140	I298	Perform voltage detector checks
141	I299	Perform W-7 long tests
142	I300	Perform W-8 release pulse tests
143	I302	Remove or install operational or mission gun tapes
144	J303	Adjust emergency bomb release systems
145	J304	Adjust weapons bay door indicator light circuit switches
146	J305	Adjust weapons bay door indicator sensor circuit switches
147	J306	Perform AN/A1 bomb group selector time changes
148	J307	Perform flightline modifications of aircraft-installed or on-equipment suspension, launch, and release systems
149	J308	Perform time changes on impulse or hoist cartridges
150	J309	Reconfigure bomber suspension, launch, and release systems
151	J310	Reconfigure fighter suspension, launch, and release systems
152	J318	Remove or install launcher adapters
153	J320	Remove or install multiple ejector rack (MER) adapter beams
154	J328	Remove or replace aircraft-installed circuit breakers
155	J331	Remove or replace armament operational test and evaluation (OT&E) components
156	J332	Remove or replace bomb or rocket dispensing system electrical components
157	J333	Remove or replace bomb or rocket dispensing system mechanical components
158	J334	Remove or replace chaff or flare dispensing system electrical components
159	J335	Remove or replace chaff or flare dispensing system mechanical components
160	J336	Remove or replace hydraulic components, such as valves, actuators, or hoses
161	J340	Remove or replace missile launch and control system hydraulic components
162	J342	Remove or replace operational or mission computer tapes
163	J343	Remove or replace photoflash system electrical components
164	J344	Remove or replace photoflash system mechanical components
165	J345	Remove or replace release pulse indicator system electrical components
166	J346	Remove or replace release pulse indicator system mechanical components
167	J354	Reprogram expanded central interface units (ECIUs)
168	J364	Troubleshoot built-in test equipment (BITE) systems
169	J369	Troubleshoot conventional remote interface units (CRIUs)
170	J370	Troubleshoot fault isolation record systems
171	J377	Troubleshoot missile launch and control hydraulic systems
172	J379	Troubleshoot nuclear remote interface units (NRIUs)
173	J380	Troubleshoot photoflash dispensing electrical systems
174	J381	Troubleshoot photoflash dispensing mechanical systems

0064 ST0064 Tasks not referenced (Continued)

175	J382	Troubleshoot release pulse indicator electrical systems
176	J383	Troubleshoot release pulse indicator mechanical systems
177	J384	Troubleshoot rocket launcher electrical systems
178	J385	Troubleshoot rocket launcher mechanical systems
179	K389	Assemble or disassemble armament system hydraulic components
180	K393	Assemble or disassemble chaff or flare dispensers
181	K396	Assemble or disassemble heavy stores adapter beams
182	K399	Assemble or disassemble missile ejector racks
183	K407	Bench check armament system hydraulic components
184	K411	Bench check bomb release interval control (BRIC) or digital bomb release interval control (DBRIC) units
185	K413	Bench check chaff or flare dispensers
186	K417	Bench check heavy stores adapter beams
187	K428	Inspect pylon fuel electrical components
188	K429	Isolate cooling air malfunctions in pylons or adapters
189	K432	Perform operator maintenance on environmental test equipment
190	K433	Perform operator maintenance or inspections on mechanical or force measuring test equipment
191	K434	Remove or install bomb or ejector racks from or onto conventional bomb modules
192	K437	Remove or replace aircraft nuclear weapons release system circuit cards
193	K438	Remove or replace conventional bombing system circuit cards
194	K439	Remove or replace missile launch and control system circuit cards
195	K441	Repair armament system hydraulic components
196	K445	Repair chaff or flare dispensers
197	K454	Repair weapons bay door mechanical system components
198	K457	Troubleshoot armament system cable assemblies or wiring
199	K462	Troubleshoot heavy stores adapter beam electrical systems
200	K466	Troubleshoot missile ejector rack mechanical components
201	L475	Adjust purge or scavenge system components
202	L477	Boresight gun systems
203	L479	Clean and lubricate internal gun overhead rail systems or hoists
204	L483	Clear malfunctioned or jammed gun pod systems
205	L486	Functionally or electrically check gun pod systems
206	L489	Harmonize gun systems
207	L491	Inspect ammunition storage drawers, drums, or cans
208	L493	Inspect grenade launchers
209	L496	Inspect internal gun overhead rail systems or hoists
210	L499	Inspect recoil cylinders or adapters
211	L505	Maintain ammunition storage drawers, drums, or cans
212	L506	Operationally or mechanically check gun pod systems
213	L512	Perform gun system pneumatic checks
214	L514	Remove or install aerial gun operation alternate mission equipment
215	L515	Remove or install gun pods
216	L523	Remove or replace recoil cylinders or adapters
217	M537	Align and time gun system components, such as control boxes
218	M543	Bench check trainable or fixed-mounted gun hydraulic systems

0064	ST0064	Tasks not referenced (Continued)
219	M547	Inspect aircraft gun supports or mounts
220	M548	Inspect ammunition cans
221	M550	Isolate mechanical malfunctions in jammed gun pod systems
222	M559	Perform in-shop ammunition unloading of internal gun systems
223	M560	Perform in-shop ammunition unloading of trainable, fixed-, or pintle-mounted gun systems
224	M580	Remove or replace alternate gun components, other than for aerial gun operations
225	M581	Remove or replace gun pod system electrical components
226	M582	Remove or replace gun pod system mechanical component
227	N595	Bench check munitions support equipment
228	N596	Calibrate armament system testers
229	N597	Calibrate gun system test equipment
230	N601	Clean or corrosion-treat bomb lift trucks
231	N602	Clean or corrosion-treat conventional pylon loading adapters
232	N603	Clean or corrosion-treat launcher loading adapters (LLAs)
233	N604	Clean or corrosion-treat munitions handling trailers
234	N605	Clean or corrosion-treat munitions support equipment, other than trucks, trailers, or loading adapters
235	N608	Inspect ammunition loading systems
236	N610	Inspect conventional pylon loading adapters
237	N611	Inspect delinkers or loading assemblies
238	N614	Inspect LLAs
239	N617	Inspect split-deck maintenance platforms prior-to-use
240	N618	Inspect UALSs
241	N619	Inspect universal maintenance stands prior-to-use
242	N621	Inspect 20mm ammunition loaders
243	N622	Inspect 25mm ammunition loaders
244	N626	Isolate malfunctions in test equipment
245	N627	Maintain shop hoists
246	N628	Modify munitions handling trailers
247	N629	Modify munitions support equipment, other than trailers
248	N630	Perform minor maintenance on munitions support equipment
249	N633	Remove or replace gun loading system components, other than UALSs
250	N638	Remove or replace parts of munitions support equipment, other than trailers
251	N639	Remove or replace pneumatic ammunition loader components
252	N640	Remove or replace test equipment components
253	N642	Remove or replace 20mm ammunition loader components
254	N643	Remove or replace 25mm ammunition loader components
255	N646	Repair conventional pylon loading adapters
256	N647	Service bomb lift trucks
257	N650	Service munitions support equipment, other than trucks or trailers
258	N655	Troubleshoot munitions support equipment, other than trailers
259	N657	Troubleshoot 20mm ammunition loaders
260	N661	Weight-check bomb lift trucks
261	N664	Weight-check munitions support equipment, other than trucks or trailers
262	O671	Inspect fuses

0064	ST0064	Tasks not referenced (Continued)
263	O673	Inspect pneumatic loaders prior-to-use
264	O674	Install supporting or security devices on munitions for transport or shipment
265	O675	Load or unload ammunition cans onto or from aircraft
266	O676	Load or unload ammunition into or from gun pods
267	O678	Load or unload ammunition into or from trainable, fixed-, or pintle-mounted gun systems
268	O681	Load or unload conventional munitions or equivalent training items onto or from racks or preload stands
269	O684	Load or unload nuclear weapons or equivalent training items onto or from preload frames
270	O685	Load or unload PBARs to or from launchers
271	O686	Load or unload photoflash dispensers onto or from aircraft
272	O687	Load or unload preloaded conventional munitions or equivalent training items onto or from aircraft
273	O697	Perform weapons preload or proofload tests
274	O699	Prepare for loading conventional munitions onto racks or preload stands
275	O701	Prepare for loading nuclear weapons or equivalent training items onto preload equipment
276	O703	Remove or install air combat maneuvering instrumentation (ACMI) pods
277	O705	Remove or install auxiliary tank impulse cartridges
278	O706	Remove or install electronic countermeasure (ECM) pods
279	O709	Service argon bottles
280	P713	Evaluate airborne gunners
281	P720	Load grenade launchers during aerial operations
282	P733	Perform inflight checks of chaff or flare dispensers
283	P737	Place 40mm or 105mm ammunition into ammunition storage racks
284	Q744	Attach munitions to cradles or adapters for transport
285	Q745	Convoy nuclear weapons or equivalent training items
286	Q746	Coordinate field storage of munitions with host units
287	Q747	Coordinate temporary storage of munitions with host units
288	Q748	Coordinate vehicles for munitions deliveries
289	Q749	Coordinate weapon escorts with security police
290	Q750	Dispatch vehicles for munitions deliveries
291	Q751	Escort conventional or nuclear munitions during transport
292	Q754	Inventory nuclear weapons or equivalent training items
293	Q755	Load or unload conventional munitions cargo onto or from aircraft
294	Q756	Load or unload conventional munitions cargo onto or from transport vehicles
295	Q757	Load or unload nuclear weapons or equivalent training item cargo onto or from aircraft
296	Q758	Load or unload nuclear weapons or equivalent training item cargo onto or from transport vehicles
297	Q759	Palletize munitions items
298	Q760	Place placards or warnings on munitions transport or handling equipment
299	Q761	Plan munitions stacking arrangements
300	Q762	Prepare munitions for shipment
301	Q763	Prepare munitions for storage
302	Q765	Store assembled ready munitions

0064	ST0064	Tasks not referenced (Continued)
303	Q766	Store nuclear weapons or equivalent training items
304	Q767	Transport conventional munitions
305	Q769	Unpack munitions shipments
306	Q770	Verify accuracy of munitions shipping documents
307	R772	Bleed or service brake systems
308	R774	Jack or level aircraft
309	R778	Operate maintenance dispatch vehicles
310	R779	Perform antihijacking procedures
311	R780	Perform auxiliary tank build-ups
312	R781	Perform engine runups
313	R782	Perform hot-pit aircraft refueling or defueling
314	R783	Perform munitions build-ups
315	R784	Perform over-the-wing aircraft refueling or defueling
316	R785	Perform single-point aircraft refueling or defueling
317	R788	Remove or replace aircraft external fuel tanks
318	R789	Remove or replace aircraft pods
319	R790	Remove or replace aircraft skin panels or covers
320	R792	Remove or replace radomes
321	R793	Service aircraft hydraulic systems
322	R796	Service maintenance dispatch vehicles
323	R798	Teardown or buildup helicopters for transport
324	R799	Tie down aircraft, such as during wind warnings or storms
325	R800	Tow aircraft
326	R801	Tow munitions lift trailers
327	R802	Tow nonpowered aerospace ground equipment (AGE)
328	S807	Assemble mobility equipment
329	S812	Conduct mobility training
330	S813	Conduct unit mobility self-inspections
331	S814	Consolidate unit inputs to mobility augmentee rosters
332	S815	Construct aircraft revetments
333	S816	Construct bomb stands
334	S817	Construct bunkers
335	S818	Coordinate alert procedures with operations
336	S819	Coordinate hot gun area set-ups with appropriate agencies
337	S823	Coordinate storage and access for deployed munitions with appropriate agencies
338	S824	Coordinate storage and security of high-risk aircraft weapons with appropriate agencies
339	S826	Deliver aircraft or equipment documentation to appropriate agencies before mobility deployments
340	S831	Develop mobility training lesson plans
341	S833	Develop reception and contingency operations plans
342	S835	Develop weapons portions of support agreement inputs for mobility or deployments
343	S837	Encode or decode cryptographic authentication codes
344	S838	Erect or tear down expandables
345	S839	Erect or tear down tents
346	S840	Erect prefabricated hangars

0064	ST0064	Tasks not referenced (Continued)
347	S841	Establish mobility workcenters
348	S847	Input personnel tasking requirements for mobility or deployments
349	S848	Input vehicle requirements for mobility or deployments
350	S849	Inspect mobility bags or kits
351	S850	Label mobility equipment
352	S851	Lay concertina wire
353	S852	Lay down aircraft parking ramp matting
354	S853	Load mobility equipment onto aircraft
355	S855	Maintain mobility deployment kits
356	S856	Maintain mobility equipment after issue
357	S857	Maintain readiness lists
358	S859	Manufacture furniture
359	S860	Operate M-series vehicles during contingencies
360	S861	Pack contingency equipment
361	S862	Palletize mobility or contingency equipment
362	S863	Participate in daily frag meetings
363	S865	Perform base laundry duties
364	S866	Perform base perimeter defense duties
365	S867	Perform base transportation duties
366	S868	Perform dining facility duties
367	S869	Perform disease and pestilence prevention
368	S870	Perform latrine cleanup duties
369	S871	Perform maintenance on mobility vehicles
370	S875	Perform quick reaction-force duties
371	S876	Prepare mobility plan inputs to base mobility plans
372	S878	Prepare sites at deployed locations
373	S882	Return aircraft or equipment documentation to appropriate agencies after mobility deployments
374	S883	Return mobility equipment to daily use
375	S886	Sort mail
376	S887	Supervise unit personnel or cargo loading for mobility exercises or deployments
377	S888	Tear down, inspect, clean, or reassemble small arms

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